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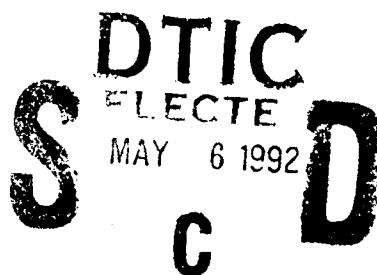


1991

Dollar Summary of Federal Supply Classification and  
Service Category by Company. Part-1 (AA35-AZ-16)

Washington Headquarters Services (DOD) Directorate for  
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Unclassified

## PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

FISCAL YEAR 1991

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R-D DESCRIPTION	
AA35	MARTIN MARIETTA CORPORATION	California	USAF	RDTE/Agriculture Production-Op Systems Dev	\$ 166-
AB15	TEST SYSTEMS INC	N.H.	ARMY	RDTE/Crime Prevention & Control-Op Systems	53
AB91	RESEARCH TRIANGLE INSTITUTE	N Carolina	ARMY	RDTE/Other Community Svcs & Develop-Basic	1,100
AB92	SCHAFER W J ASSOCIATES INC	Mass	NAVY	RDTE/Other Community Svcs & Develop-Explor	100
	TEACHING STRATEGIES INC	D.C.	ARMY	RDTE/Other Community Svcs & Develop-Explor	25
	R&D TOTAL				125
AC11	ADROIT SYSTEMS INC	Virginia	USAF	RDTE/Aircraft-Basic Research	50
	AEROVIRONMENT INC	California	NAVY	RDTE/Aircraft-Basic Research	250
	ALLIED SIGNAL INC	Arizona	NAVY	RDTE/Aircraft-Basic Research	385
	ARETE TECHNOLOGIES INC	Mass	NAVY	RDTE/Aircraft-Basic Research	45
	BELL HELICOPTER TEXTRON INC	Texas	ARMY	RDTE/Aircraft-Basic Research	305
	BRUSH WELLMAN INC	Ohio	NAVY	RDTE/Aircraft-Basic Research	150
	CATHOLIC UNIVERSITY OF AMERICA	D.C.	NAVY	RDTE/Aircraft-Basic Research	95
	CFD RESEARCH CORPORATION	Alabama	NAVY	RDTE/Aircraft-Basic Research	49
	DAEDALUS RESEARCH INC	Utah	NAVY	RDTE/Aircraft-Basic Research	103
	DECEL INC	Florida	NAVY	RDTE/Aircraft-Basic Research	55
	DYMAFLOW INC	Maryland	NAVY	RDTE/Aircraft-Basic Research	50
	ELECTROSPACE SYSTEMS INC	Florida	USAF	RDTE/Aircraft-Basic Research	40
	GENERAL DYNAMICS CORPORATION	Conn	NAVY	RDTE/Aircraft-Basic Research	1,247
	GENERAL ELECTRIC COMPANY	Ohio	ARMY NAVY	RDTE/Aircraft-Basic Research RDTE/Aircraft-Basic Research	133 161
	GENERAL MOTORS CORPORATION	Indiana	NAVY	RDTE/Aircraft-Basic Research	294
	METROLASER	California	NAVY	RDTE/Aircraft-Basic Research	1,665-
	MISSISSIPPI STATE UNIVERSITY	Miss	USAF	RDTE/Aircraft-Basic Research	50
	NATIONAL ACADEMY SCIENCES USA	Penn	NAVY	RDTE/Aircraft-Basic Research	154
					38

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	-R&D DESCRIPTION-		\$
AC11	(CONTINUED)					
	OPTRA INC	Mass	NAVY	RDTE/Aircraft-Basic Research		50
	SCIENTIFIC RESEARCH ASSOC INC	Conn	NAVY	RDTE/Aircraft-Basic Research		63
	SIPIN ANATOLE J CO INC	New York	ARMY	RDTE/Aircraft-Basic Research		146
	SYSTEMS CONTROL TECHNOLOGY	California	NAVY	RDTE/Aircraft-Basic Research		54
	UNITED TECHNOLOGIES CORP	Conn	ARMY	RDTE/Aircraft-Basic Research		250
		Florida	NAVY	RDTE/Aircraft-Basic Research		73
	CONTRACTOR TOTAL					323
	UNIVERSITY OF DAYTON INC	Ohio	USAF	RDTE/Aircraft-Basic Research		263
	R&D TOTAL					2,594
AC12	A A I CORPORATION	Maryland	ARMY	RDTE/Aircraft-Exploratory Development		3,399
	ADVANCED RES & APPLICATIONS	California	USAF	RDTE/Aircraft-Exploratory Development		41
	AERODYNE RESEARCH INC	Mass	NAVY	RDTE/Aircraft-Exploratory Development		50
	AEROMETRICS INC	California	NAVY	RDTE/Aircraft-Exploratory Development		46
	AIRCRAFT POROUS MEDIA INC	Florida	ARMY	RDTE/Aircraft-Exploratory Development		118
	ALLIED SIGNAL AEROSPACE CO	California	NAVY	RDTE/Aircraft-Exploratory Development		229
			USAF	RDTE/Aircraft-Exploratory Development		48-
	STATE TOTAL					181
	ANACAPA SCIENCES INC	Alabama	ARMY	RDTE/Aircraft-Exploratory Development		555
	ARROW TECH ASSOCIATES	Vermont	USAF	RDTE/Aircraft-Exploratory Development		53
	AVCO CORPORATION	Conn	NAVY	RDTE/Aircraft-Exploratory Development		400
	BDM INTERNATIONAL INC	Virginia	NAVY	RDTE/Aircraft-Exploratory Development		495
	BOEING CO & SIKORSKY ACFT JV	Penn	ARMY	RDTE/Aircraft-Exploratory Development		8,475
	BOEING COMPANY THE	Penn	ARMY	RDTE/Aircraft-Exploratory Development		99
	BRISTOW HELICOPTER LIMITED	UNITED KIN	ARMY	RDTE/Aircraft-Exploratory Development		114

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CONTRY	DPT	R&D DESCRIPTION	
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AC12 (CONTINUED)

BURNETTE ENGINEERING	Ohio	USAF	RDTE/Aircraft-Exploratory Development		\$ 75
CALSPAN CORPORATION	Ohio	USAF	RDTE/Aircraft-Exploratory Development		1,069
CRITICAL SOFTWARE SYSTEMS	California	NAVY	RDTE/Aircraft-Exploratory Development		72
DCS CORPORATION	Virginia	NAVY	RDTE/Aircraft-Exploratory Development		353
DOUGLAS AIRCRAFT COMPANY	California	NAVY	RDTE/Aircraft-Exploratory Development		30
DUAL & ASSOCIATES INC	Virginia	NAVY	RDTE/Aircraft-Exploratory Development		395
DUCHOSSOIS ENTERPRISES INC	Tennessee	NAVY	RDTE/Aircraft-Exploratory Development		80
DYNAMIC ENGINEERING INC	Virginia	ARMY	RDTE/Aircraft-Exploratory Development		74
GENERAL ELECTRIC COMPANY	Mass	ARMY NAVY	RDTE/Aircraft-Exploratory Development RDTE/Aircraft-Exploratory Development		131 1,490
		STATE TOTAL			1,621
	Ohio	NAVY	RDTE/Aircraft-Exploratory Development		1,092
					2,713
CONTRACTOR TOTAL					
GRUMMAN AEROSPACE CORPORATION	New York	NAVY	RDTE/Aircraft-Exploratory Development		174
H R TEXTRON INC	California	NAVY	RDTE/Aircraft-Exploratory Development		1,540
HONEYWELL INC	Minnesota	NAVY	RDTE/Aircraft-Exploratory Development		472
HUGHES AIRCRAFT COMPANY	California	NAVY	RDTE/Aircraft-Exploratory Development		664
I I T RESEARCH INSTITUTE	Illinois	NAVY	RDTE/Aircraft-Exploratory Development		70
INTERNATIONAL FUEL CELLS CORP	Conn	NAVY	RDTE/Aircraft-Exploratory Development		311
LASER SCIENCE INC	Mass	NAVY	RDTE/Aircraft-Exploratory Development		51
LASER SYSTEMS & RSCH CORP	California	NAVY	RDTE/Aircraft-Exploratory Development		76
LOCKHEED AERONAUTICAL SYS CO	Georgia	USAF	RDTE/Aircraft-Exploratory Development		415
LOCKHEED MISSILES & SPACE CO	California	NAVY	RDTE/Aircraft-Exploratory Development		138
LOUISIANA TECH UNIVERSITY	Louisiana	NAVY	RDTE/Aircraft-Exploratory Development		30

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FISCAL YEAR 1991

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R-D DESCRIPTION	\$
AC12 (CONTINUED)					
	MAIN LINE WAVES INC	Penn	NAVY	RDTE/Aircraft-Exploratory Development	60
	MARKO MATERIALS INC	Mass	NAVY	RDTE/Aircraft-Exploratory Development	38
	MARMON MOTOR COMPANY	Texas	ARMY	RDTE/Aircraft-Exploratory Development	45
	MARTIN MARIETTA CORPORATION	Florida	NAVY	RDTE/Aircraft-Exploratory Development	100
	MATERIALS SCIENCES CORP	Penn	NAVY	RDTE/Aircraft-Exploratory Development	30
	MCDONNELL DOUGLAS CORPORATION	Missouri	NAVY	RDTE/Aircraft-Exploratory Development	171
	MCDONNELL DOUGLAS HELICOPTER	Arizona	ARMY	RDTE/Aircraft-Exploratory Development	86
	NORTH CAROLINA A&T UNIV	N Carolina	NAVY	RDTE/Aircraft-Exploratory Development	50
	NORTHROP CORPORATION	California	ARMY	RDTE/Aircraft-Exploratory Development	25-
	RAYTHEON COMPANY	California	USAF	RDTE/Aircraft-Exploratory Development	50-
	ROCKWELL INTERNATIONAL CORP	California	NAVY	RDTE/Aircraft-Exploratory Development	104
	SCIDMORE & SHEAN	New York	ARMY	RDTE/Aircraft-Exploratory Development	88
	SCIENCE APPLICATIONS INTL CORP	Ohio	USAF	RDTE/Aircraft-Exploratory Development	509
	SELF CORP	California	NAVY	RDTE/Aircraft-Exploratory Development	50
	SOUTHWEST RESEARCH INSTITUTE	Texas	NAVY	RDTE/Aircraft-Exploratory Development	80
	SPARTA INC	Alabama	NAVY	RDTE/Aircraft-Exploratory Development	49
	SYSTEMS CONTROL TECHNOLOGY	California	USAF	RDTE/Aircraft-Exploratory Development	180
	UNITED TECHNOLOGIES CORP	Conn	ARMY NAVY	RDTE/Aircraft-Exploratory Development RDTE/Aircraft-Exploratory Development	251 2,410
	STATE TOTAL				2,661
	UNIVERSITY OF DAYTON INC	Ohio	USAF	RDTE/Aircraft-Exploratory Development	518
	WESTINGHOUSE ELECTRIC CORP	Penn	NAVY	RDTE/Aircraft-Exploratory Development	195
	R&D TOTAL				27,767
	AC13 AAR BROOKS & PERKINS CORP	New York	ARMY	RDTE/Aircraft-Advanced Development	200

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	-R&D DESCRIPTION-	
AC13 (CONTINUED)					
	ADROIT SYSTEMS INC	Virginia	USAF	RDTE/Aircraft-Advanced Development	\$ 100
	AEROJET	California	NAVY	RDTE/Aircraft-Advanced Development	120
	ALLIED SIGNAL AEROSPACE CO	Arizona	USAF	RDTE/Aircraft-Advanced Development	1,105
	ALLIED SIGNAL INC	Arizona	USAF	RDTE/Aircraft-Advanced Development	928
	AMERICAN OPTICAL CORPORATION	Mass	USAF	RDTE/Aircraft-Advanced Development	573
	ANAREN MICROWAVE INC	New York	USAF	RDTE/Aircraft-Advanced Development	150
	ATLANTIC RESEARCH CORPORATION	Virginia	USAF	RDTE/Aircraft-Advanced Development	8,048
	AVCO CORPORATION	Conn	ARMY USAF	RDTE/Aircraft-Advanced Development RDTE/Aircraft-Advanced Development	1,957 492
		STATE TOTAL			2,449
	BATTELLE MEMORIAL INSTITUTE	Ohio	USAF	RDTE/Aircraft-Advanced Development	100
	BELL HELICOPTER TEXTRON INC	Texas	ARMY	RDTE/Aircraft-Advanced Development	27-
	BOEING AEROSPACE & ELECTRONICS	Washington	NAVY	RDTE/Aircraft-Advanced Development	70
	BOEING CO & SIKORSKY ACFT JV	Penn	ARMY	RDTE/Aircraft-Advanced Development	246,707
	BOEING COMPANY THE	Alabama	ARMY	RDTE/Aircraft-Advanced Development	106-
		Washington	NAVY USAF	RDTE/Aircraft-Advanced Development RDTE/Aircraft-Advanced Development	947 712
		STATE TOTAL			1,659
	CONTRACTOR TOTAL				1,553
	CANADIAN COMMERCIAL CORP	CANADA	USAF	RDTE/Aircraft-Advanced Development	975
	CARNEGIE GROUP INC	Penn	ARMY	RDTE/Aircraft-Advanced Development	71
	CENTURY COMPUTING INC	Maryland	USAF	RDTE/Aircraft-Advanced Development	164
	CHI SYSTEMS INC	Penn	NAVY	RDTE/Aircraft-Advanced Development	245
	CONRAD TECHNOLOGIES INC	Penn	NAVY	RDTE/Aircraft-Advanced Development	226
	CREARE INC	N.H.	USAF	RDTE/Aircraft-Advanced Development	62

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FISCAL YEAR 1991

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/ENTRY	DEPT	R&D DESCRIPTION	\$
AC13 (CONTINUED)					
	DRAPER CHARLES STARK LAB INC	Mass	USAF	RDTE/Aircraft-Advanced Development	150
	ELDEC CORPORATION	Washington	ARMY	RDTE/Aircraft-Advanced Development	107
	FORTEX CORP	New York	USAF	RDTE/Aircraft-Advanced Development	100
	FROST ENGINEERING DEVELOPMENT	Colorado	NAVY	RDTE/Aircraft-Advanced Development	59
	G E C AVIONICS LTD	UNITED KIN	USAF	RDTE/Aircraft-Advanced Development	38
	GENERAL DYNAMICS CORPORATION	California	USAF	RDTE/Aircraft-Advanced Development	364
		Texas	USAF	RDTE/Aircraft-Advanced Development	24,291
	CONTRACTOR TOTAL				24,655
	GENERAL ELECTRIC COMPANY	Mass	ARMY	RDTE/Aircraft-Advanced Development	1,957
			NAVY	RDTE/Aircraft-Advanced Development	240
			USAF	RDTE/Aircraft-Advanced Development	2,451
	STATE TOTAL				4,648
		Ohio	USAF	RDTE/Aircraft-Advanced Development	187,614
	CONTRACTOR TOTAL				192,262
	GENERAL MOTORS CORPORATION	Indiana	USAF	RDTE/Aircraft-Advanced Development	4,638
	GRUMMAN AEROSPACE CORPORATION	California	USAF	RDTE/Aircraft-Advanced Development	1,685
	HONEYWELL INC	Minnesota	USAF	RDTE/Aircraft-Advanced Development	516
	INTERMETRICS INC	Penn	NAVY	RDTE/Aircraft-Advanced Development	1,818
	LITTON SYSTEMS INC	Iowa	NAVY	RDTE/Aircraft-Advanced Development	58
	LOCKHEED AERONAUTICAL SYS CO	Georgia	USAF	RDTE/Aircraft-Advanced Development	27,847
	LOCKHEED CORPORATION	California	USAF	RDTE/Aircraft-Advanced Development	177,893
		Georgia	USAF	RDTE/Aircraft-Advanced Development	16,750
	CONTRACTOR TOTAL				194,643
	LOCKHEED MISSILES & SPACE CO	California	USAF	RDTE/Aircraft-Advanced Development	330
	MCDONNELL DOUGLAS CORPORATION	Missouri	NAVY	RDTE/Aircraft-Advanced Development	71

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AC13 (CONTINUED)					
			USAF	RDTE/Aircraft-Advanced Development	\$ 23,440
		STATE TOTAL			
	MCDONNELL DOUGLAS HELICOPTER	Arizona	ARMY	RDTE/Aircraft-Advanced Development	23,511
	NASP NATIONAL CONTRACTOR TEAM	California	USAF	RDTE/Aircraft-Advanced Development	13,625
	NORMALAIR GARRETT LTD	UNITED KIN	NAVY	RDTE/Aircraft-Advanced Development	102,803
	NORTHROP CORPORATION	California	USAF	RDTE/Aircraft-Advanced Development	329
	PIASECKI AIRCRAFT CORP	Penn	ARMY	RDTE/Aircraft-Advanced Development	145,552
	ROCKWELL INTERNATIONAL CORP	California	USAF	RDTE/Aircraft-Advanced Development	2,172
		Oklahoma	USAF	RDTE/Aircraft-Advanced Development	18,757
					1,370
	CONTRACTOR TOTAL				20,127
	SCIENCE APPLICATIONS INTL CORP	Ohio	USAF	RDTE/Aircraft-Advanced Development	2,717
	SEMCOR INC	New Jersey	NAVY	RDTE/Aircraft-Advanced Development	2,536
	SYSTEMS TECHNOLOGY INC	California	NAVY	RDTE/Aircraft-Advanced Development	49
	TELEDYNE INDUSTRIES INC	Ohio	USAF	RDTE/Aircraft-Advanced Development	2,174
	TEXAS INSTRUMENTS INC	Texas	USAF	RDTE/Aircraft-Advanced Development	878
	TRW INC	California	USAF	RDTE/Aircraft-Advanced Development	25
	UNITED TECHNOLOGIES CORP	Conn	USAF	RDTE/Aircraft-Advanced Development	386
	CONTRACTOR TOTAL	Florida	USAF	RDTE/Aircraft-Advanced Development	261,216
					261,602
	VEDA INCORPORATED	Penn	NAVY	RDTE/Aircraft-Advanced Development	1,472
		Virginia	NAVY	RDTE/Aircraft-Advanced Development	177
	CONTRACTOR TOTAL				1,649
	VEDA INTERNATIONAL INC	Ohio	USAF	RDTE/Aircraft-Advanced Development	500
	R&D TOTAL				1,292,974

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AC14	AEROSTRUCTURES INC	Virginia	NAVY	RDTE/Aircraft-Engineering Development	\$ 3,165
	ALLIED SIGNAL AEROSPACE CO	Arizona	USAF	RDTE/Aircraft-Engineering Development	4,200
		California	ARMY	RDTE/Aircraft-Engineering Development	
	CONTRACTOR TOTAL				4,200
	ALLIED SIGNAL INC	Arizona	NAVY	RDTE/Aircraft-Engineering Development	843
		California	NAVY	RDTE/Aircraft-Engineering Development	293-
	CONTRACTOR TOTAL				550
	ALLOY SURFACES CO	Delaware	USAF	RDTE/Aircraft-Engineering Development	120
	BELL BOEING JV	Penn	NAVY	RDTE/Aircraft-Engineering Development	133
		Texas	NAVY	RDTE/Aircraft-Engineering Development	189,981
	CONTRACTOR TOTAL				190,114
	BELL HELICOPTER TEXTRON INC	Texas	ARMY	RDTE/Aircraft-Engineering Development	5,010
			NAVY	RDTE/Aircraft-Engineering Development	237
	CONTRACTOR TOTAL				5,247
	BOEING COMPANY THE	Alabama	USAF	RDTE/Aircraft-Engineering Development	6,820
		Washington	USAF	RDTE/Aircraft-Engineering Development	55,259
	CONTRACTOR TOTAL				62,079
	BROWN DAYTON T INC	New York	NAVY	RDTE/Aircraft-Engineering Development	360
	CACI INC	Virginia	NAVY	RDTE/Aircraft-Engineering Development	240
	CAE-LINK CORPORATION	Maryland	NAVY	RDTE/Aircraft-Engineering Development	7,200
	CAS INC	Alabama	ARMY	RDTE/Aircraft-Engineering Development	5,105
	CENTURY COMPUTING INC	Maryland	USAF	RDTE/Aircraft-Engineering Development	96
		Ohio	USAF	RDTE/Aircraft-Engineering Development	50
	CONTRACTOR TOTAL				146
	CHADWICK HELMUTH CO INC	California	ARMY	RDTE/Aircraft-Engineering Development	111
	CHRYSLER TECHNOLOGIES ARBRN SY	Texas	USAF	RDTE/Aircraft-Engineering Development	4,152

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AC14 (CONTINUED)

CLARK ATLANTA UNIVERSITY	Georgia	USAF	RDTE/Aircraft-Engineering Development	\$	175
COLLINS INTERNATIONAL SVC CO	Iowa	ARMY	RDTE/Aircraft-Engineering Development		1,635
CONAX CORPORATION	Florida	USAF	RDTE/Aircraft-Engineering Development		100
DELFIN SYSTEMS	California	NAVY	RDTE/Aircraft-Engineering Development		232
E SYSTEMS INC	Texas	USAF	RDTE/Aircraft-Engineering Development		34-
ECC INTERNATIONAL CORP	Florida	USAF	RDTE/Aircraft-Engineering Development		20,418
ENGINEERING & ECONOMICS RES	W Virginia	NAVY	RDTE/Aircraft-Engineering Development		8,400
FAIRCHILD INDUSTRIES INC	Maryland	USAF	RDTE/Aircraft-Engineering Development		4,689
GENERAL DYNAMICS CORPORATION	California	USAF	RDTE/Aircraft-Engineering Development		28
	Texas	USAF	RDTE/Aircraft-Engineering Development		19,200
CONTRACTOR TOTAL					19,228
GENERAL ELECTRIC COMPANY	Mass	NAVY	RDTE/Aircraft-Engineering Development		4,000
	New Jersey	NAVY	RDTE/Aircraft-Engineering Development		423
	Ohio	NAVY	RDTE/Aircraft-Engineering Development		446
		USAF	RDTE/Aircraft-Engineering Development		76,603
STATE TOTAL					77,049
CONTRACTOR TOTAL					81,472
GENERAL MOTORS CORPORATION	Indiana	NAVY	RDTE/Aircraft-Engineering Development		29,786
GENERAL PHYSICS CORPORATION	Florida	NAVY	RDTE/Aircraft-Engineering Development		1,494
GRUMMAN AEROSPACE CORPORATION	New York	NAVY	RDTE/Aircraft-Engineering Development		115,852
HARRIS GROUP THE INC	Virginia	USAF	RDTE/Aircraft-Engineering Development		166
HUGHES AIRCRAFT COMPANY	California	NAVY	RDTE/Aircraft-Engineering Development		12,075
HUGHES TRAINING SYS INC	Texas	USAF	RDTE/Aircraft-Engineering Development		9,500
INTERNATIONAL BUS MCHS CORP	New York	NAVY	RDTE/Aircraft-Engineering Development		21,262

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AC14 (CONTINUED)					
	J W K INTERNATIONAL CORP	Virginia	USAF	RDTE/Aircraft-Engineering Development	128
	LIGHT HELICOPTER TURBINE ENG	Missouri	ARMY	RDTE/Aircraft-Engineering Development	36,015
	LOCKHEED AERONAUTICAL SYS CO	Georgia	USAF	RDTE/Aircraft-Engineering Development	80,367
	LOCKHEED CORPORATION	California	NAVY	RDTE/Aircraft-Engineering Development	80,138-
		N.H.	USAF	RDTE/Aircraft-Engineering Development	371
	CONTRACTOR TOTAL				79,767-
	LOGISTICS MANAGEMENT ENGRG	Penn	NAVY	RDTE/Aircraft-Engineering Development	77
	LUCAS AROSPACE PWR TRANSM CORP	New York	ARMY	RDTE/Aircraft-Engineering Development	
	MARTIN MARIETTA CORPORATION	Maryland	NAVY	RDTE/Aircraft-Engineering Development	1,584
	MCDONNELL DOUGLAS CORPORATION	California	USAF	RDTE/Aircraft-Engineering Development	442,716
		Kansas	USAF	RDTE/Aircraft-Engineering Development	372
		Missouri	NAVY	RDTE/Aircraft-Engineering Development	176,389
			USAF	RDTE/Aircraft-Engineering Development	7,096
	STATE TOTAL				183,485
	CONTRACTOR TOTAL				626,573
	MCDONNELL DOUGLAS HELICOPTER	Arizona	ARMY	RDTE/Aircraft-Engineering Development	52,185
	MCDONNELL DOUGLAS MSL SYS CO	Florida	USAF	RDTE/Aircraft-Engineering Development	431
	MCDONNELL DOUGLAS TRNING SYS	Oklahoma	USAF	RDTE/Aircraft-Engineering Development	9,495
	MIDWEST RESEARCH INSTITUTE	Missouri	ARMY	RDTE/Aircraft-Engineering Development	124
	PEMCO AEROPLEX INC	Alabama	ARMY	RDTE/Aircraft-Engineering Development	44
	PPG INDUSTRIES INC	Alabama	USAF	RDTE/Aircraft-Engineering Development	54
	REFLECTONE INC	Florida	USAF	RDTE/Aircraft-Engineering Development	208
	ROCKWELL INTERNATIONAL CORP	California	USAF	RDTE/Aircraft-Engineering Development	34,578
		Georgia	ARMY	RDTE/Aircraft-Engineering Development	364

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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## AC14 (CONTINUED)

CONTRACTOR TOTAL					\$	34,942
	ROTOR DYNAMICS AMERICAS INC	Texas	ARMY	RDTE/Aircraft-Engineering Development		225
	SCIENCE APPLICATIONS INTL CORP	Ohio	USAF	RDTE/Aircraft-Engineering Development		227
	SCIENTIFIC MGT ASSOCIATES	Maryland	NAVY	RDTE/Aircraft-Engineering Development		701
	SUPPORT SYSTEMS ASSOCIATES	New York	USAF	RDTE/Aircraft-Engineering Development		1,739
	SYSTEMS PLANNING & ANALYSIS	Virginia	NAVY	RDTE/Aircraft-Engineering Development		248
	THIokol CORPORATION	Utah	USAF	RDTE/Aircraft-Engineering Development		333
	TRACOR APPLIED SCIENCES INC	California	USAF	RDTE/Aircraft-Engineering Development		825
	TRW INC	California	USAF	RDTE/Aircraft-Engineering Development		1,763
	UNITED TECHNOLOGIES CORP	Conn	NAVY USAF	RDTE/Aircraft-Engineering Development RDTE/Aircraft-Engineering Development		11,758 100
	STATE TOTAL					11,858
		Florida	NAVY USAF	RDTE/Aircraft-Engineering Development RDTE/Aircraft-Engineering Development		8,459 136,476
	STATE TOTAL					144,935
						156,793
CONTRACTOR TOTAL						690
	UNIVERSITY OF DAYTON INC	Ohio	USAF	RDTE/Aircraft-Engineering Development		1,144
	VEDA INCORPORATED	Penn	NAVY	RDTE/Aircraft-Engineering Development		442
	VEDA INTERNATIONAL INC	Ohio	USAF	RDTE/Aircraft-Engineering Development		45
	WILLIAMS INTERNATIONAL CORP	Michigan	USAF	RDTE/Aircraft-Engineering Development		1,536,874
	R&D TOTAL					310
	AC15 ALLIED SIGNAL AEROSPACE CO	Indiana	USAF	RDTE/Aircraft-Operational Systems Developm		193
	BELL HELICOPTER TEXTRON INC	Texas	ARMY	RDTE/Aircraft-Operational Systems Developm		1,410
	BOEING CO & SIKORSKY ACFT JV	Penn	ARMY	RDTE/Aircraft-Operational Systems Developm		355-
	BOEING COMPANY THE	Kansas	USAF	RDTE/Aircraft-Operational Systems Developm		

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## PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AC15 (CONTINUED)					
	CALSPAN CORPORATION	Ohio	USAF	RDTE/Aircraft-Operational Systems Developm	30
	CONTRAVES USA INC	Florida	NAVY	RDTE/Aircraft-Operational Systems Developm	824
	CTA INCORPORATED	California	NAVY	RDTE/Aircraft-Operational Systems Developm	152
	ECC INTERNATIONAL CORP	Florida	USAF	RDTE/Aircraft-Operational Systems Developm	3,302
	ELECTRO SOFT INC	Penn	NAVY	RDTE/Aircraft-Operational Systems Developm	30
	ELECTROSPACE SYSTEMS INC	Texas	USAF	RDTE/Aircraft-Operational Systems Developm	79
	GENERAL DYNAMICS CORPORATION	Texas	USAF	RDTE/Aircraft-Operational Systems Developm	6,832
	GENERAL ELECTRIC COMPANY	Ohio	USAF	RDTE/Aircraft-Operational Systems Developm	4,524
	GENERAL MOTORS CORPORATION	Indiana	ARMY	RDTE/Aircraft-Operational Systems Developm	233
	GRUMMAN AEROSPACE CORPORATION	New York	NAVY	RDTE/Aircraft-Operational Systems Developm	11,512
	INTERMETRICS INC	Penn	NAVY	RDTE/Aircraft-Operational Systems Developm	164
	LOCKHEED MISSILES & SPACE CO	Texas	ARMY	RDTE/Aircraft-Operational Systems Developm	1,026-
	LTV AEROSPACE & DEFENSE CO	Texas	USAF	RDTE/Aircraft-Operational Systems Developm	157-
	MCDONNELL DOUGLAS CORPORATION	Missouri	ARMY NAVY USAF	RDTE/Aircraft-Operational Systems Developm RDTE/Aircraft-Operational Systems Developm RDTE/Aircraft-Operational Systems Developm	254 4,800 18,918
	STATE TOTAL				23,972
	NASP NATIONAL CONTRACTOR TEAM	California	USAF	RDTE/Aircraft-Operational Systems Developm	26,700
	PENCO AEROPLEX INC	Alabama	USAF	RDTE/Aircraft-Operational Systems Developm	647
	ROCKWELL INTERNATIONAL CORP	California	USAF	RDTE/Aircraft-Operational Systems Developm	9,371
	SARGENT INDUSTRIES INC	California	NAVY	RDTE/Aircraft-Operational Systems Developm	45
	SOUTHWEST AEROSPACE CORP	California	NAVY	RDTE/Aircraft-Operational Systems Developm	882
	TEXSTAR INC	Texas	USAF	RDTE/Aircraft-Operational Systems Developm	845
	TERN INC	Minnesota	USAF	RDTE/Aircraft-Operational Systems Developm	141
	UNITED TECHNOLOGIES CORP	Florida	USAF	RDTE/Aircraft-Operational Systems Developm	5,256

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AC15 (CONTINUED)					
	WESTINGHOUSE ELECTRIC CORP	Maryland	NAVY	RDTE/Aircraft-Operational Systems Developm	19,652
	R&D TOTAL				115,568
AC16	A P A OPTICS INC	Minnesota	USAF	RDTE/Aircraft-Management & Support	125
	ABARIS	Nevada	USAF	RDTE/Aircraft-Management & Support	47
	ADVANCED TECHNOLOGY & RESEARCH	Maryland	NAVY	RDTE/Aircraft-Management & Support	240
	AEROSTRUCTURES INC	Virginia	NAVY	RDTE/Aircraft-Management & Support	163
	ALLOY SURFACES CO	Delaware	NAVY	RDTE/Aircraft-Management & Support	53
	AMHERST SYSTEMS INC	New York	ARMY	RDTE/Aircraft-Management & Support	69
	ANALYTIC ENGINEERING CO	Nebraska	USAF	RDTE/Aircraft-Management & Support	95
	ANAMET LABORATORIES INC	California	USAF	RDTE/Aircraft-Management & Support	271
	ARINC RESEARCH CORPORATION	Maryland	USAF	RDTE/Aircraft-Management & Support	1,017
	BELL HELICOPTER TEXTRON INC	Texas	ARMY	RDTE/Aircraft-Management & Support	299-
	BELTRAN ASSOCIATES INC	New York	USAF	RDTE/Aircraft-Management & Support	50
	BOEING COMPANY THE	Penn	ARMY	RDTE/Aircraft-Management & Support	4,058
	CAPE COD RESEARCH INC	Mass	NAVY	RDTE/Aircraft-Management & Support	58
	CFD RESEARCH CORPORATION	Alabama	ARMY USAF	RDTE/Aircraft-Management & Support RDTE/Aircraft-Management & Support	50 50
	STATE TOTAL				100
	CHRYSLER TECHNOLOGIES ARBRN SY	Texas	USAF	RDTE/Aircraft-Management & Support	383
	CREW SYSTEMS CONSULTANTS	Texas	USAF	RDTE/Aircraft-Management & Support	414
	CSA ENGINEERING INC	California	NAVY	RDTE/Aircraft-Management & Support	50
	DCS CORPORATION	Virginia	NAVY	RDTE/Aircraft-Management & Support	49
	DEACON RESEARCH	California	USAF	RDTE/Aircraft-Management & Support	130
	EIDETICS INTERNATIONAL INC	California	NAVY	RDTE/Aircraft-Management & Support	374

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AC16 (CONTINUED)

	USAF	RDTE/Aircraft-Management & Support	\$
STATE TOTAL			
EMCORE CORPORATION	New Jersey	USAF	RDTE/Aircraft-Management & Support
ENERGY SCIENCE LABORATORIES	California	USAF	RDTE/Aircraft-Management & Support
ENGINEETICS CORPORATION	Ohio	ARMY	RDTE/Aircraft-Management & Support
FIELD AVAIAION WEST LTD	CANADA	NAVY	RDTE/Aircraft-Management & Support
FLOW INDUSTRIES INC	Washington	USAF	RDTE/Aircraft-Management & Support
FLUORO CHEM CORP	California	USAF	RDTE/Aircraft-Management & Support
FOSTER MILLER INC	Mass	ARMY	RDTE/Aircraft-Management & Support
		NAVY	RDTE/Aircraft-Management & Support
		USAF	RDTE/Aircraft-Management & Support
STATE TOTAL			
FTR INC	New Jersey	USAF	RDTE/Aircraft-Management & Support
GUIDED SYS TECH GA	Georgia	NAVY	RDTE/Aircraft-Management & Support
HAWKER PACIFIC INC	California	ARMY	RDTE/Aircraft-Management & Support
INTERGRAPH CORPORATION	Alabama	USAF	RDTE/Aircraft-Management & Support
INTERNATIONAL BUS MCHS CORP	New York	ARMY	RDTE/Aircraft-Management & Support
J & S INSULATION INC	Missouri	ARMY	RDTE/Aircraft-Management & Support
KEYSTONE COMPUTER ASSOCIATES	Penn	NAVY	RDTE/Aircraft-Management & Support
LASERGENICS CORPORATION	California	USAF	RDTE/Aircraft-Management & Support
LOCKHEED AIRCRAFT SERVICE CO	California	USAF	RDTE/Aircraft-Management & Support
LOGIS TECH	Virginia	NAVY	RDTE/Aircraft-Management & Support
MANTECH INTERNATIONAL CORP	California	USAF	RDTE/Aircraft-Management & Support
MCDONNELL DOUGLAS CORPORATION	Missouri	NAVY	RDTE/Aircraft-Management & Support
MCDONNELL DOUGLAS HELICOPTER	Arizona	ARMY	RDTE/Aircraft-Management & Support

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AC16 (CONTINUED)					
	METROLASER	California	USAF	RDTE/Aircraft-Management & Support	50
	NEW HAMPSHIRE MATERIAL LABORAT	N.H.	USAF	RDTE/Aircraft-Management & Support	65
	NONVOLATILE ELECTRONICS INC	Minnesota	USAF	RDTE/Aircraft-Management & Support	50
	PACIFIC SIERRA RESEARCH CORP	California	ARMY	RDTE/Aircraft-Management & Support	50
	PALL LAND & MARINE CORP	Florida	ARMY	RDTE/Aircraft-Management & Support	18,017
	PHYSICAL SCIENCES INC	Mass	USAF	RDTE/Aircraft-Management & Support	190
	PIASECKI AIRCRAFT CORP	Penn	NAVY	RDTE/Aircraft-Management & Support	44
	RAMSEARCH CO	Maryland	USAF	RDTE/Aircraft-Management & Support	140
	SCIENTIFIC ATLANTA INC	California	ARMY	RDTE/Aircraft-Management & Support	328
	SCIENTIFIC RESEARCH ASSOC INC	Conn	USAF	RDTE/Aircraft-Management & Support	62
	SPARTA INC	California	NAVY	RDTE/Aircraft-Management & Support	49
	SUNDSTRAND CORPORATION	Illinois	NAVY	RDTE/Aircraft-Management & Support	64
	TCAM TECHNOLOGY INC	Ohio	USAF	RDTE/Aircraft-Management & Support	50
	TECHNOLOGY INTGRN DEV GROUP	Mass	USAF	RDTE/Aircraft-Management & Support	50
	TESCO INC	Tennessee	USAF	RDTE/Aircraft-Management & Support	190
	UNITED TECHNOLOGIES CORP	Conn	ARMY	RDTE/Aircraft-Management & Support	373
	UNIVERSAL AIR FILTERS CO	Illinois	ARMY	RDTE/Aircraft-Management & Support	45
	VIGYAN RESEARCH ASSOCIATES	Virginia	USAF	RDTE/Aircraft-Management & Support	52
	WINTEC INC	Florida	NAVY	RDTE/Aircraft-Management & Support	49
	R&D TOTAL				34,862
	AC21 A A I CORPORATION	Arizona	NAVY	RDTE/Missile and Space Systems-Basic Resea	292
		Maryland	ARMY	RDTE/Missile and Space Systems-Basic Resea	11,103
	CONTRACTOR TOTAL				11,395
	A P A OPTICS INC	Minnesota	USAF	RDTE/Missile and Space Systems-Basic Resea	50

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AC21 (CONTINUED)

AEROVIRONMENT INC	California	NAVY	RDTE/Missile and Space Systems-Basic Resea	\$	163
ALLIANT TECHSYSTEMS INC	Minnesota	ARMY	RDTE/Missile and Space Systems-Basic Resea		300
AMERICAN GNC CORP	California	NAVY	RDTE/Missile and Space Systems-Basic Resea		50
ARKALA GROUP	California	USAF	RDTE/Missile and Space Systems-Basic Resea		44
ASTRON RESEARCH & ENGINEERING	California	USAF	RDTE/Missile and Space Systems-Basic Resea		83
AVCO CORPORATION	Mass	ARMY	RDTE/Missile and Space Systems-Basic Resea		5,680
	UNITED KIN	ARMY	RDTE/Missile and Space Systems-Basic Resea		122
					5,802
CONTRACTOR TOTAL					
BOEING AEROSPACE & ELECTRONICS	Washington	NAVY	RDTE/Missile and Space Systems-Basic Resea		1,519
COLLEGE OF WILLIAM & MARY	Virginia	USAF	RDTE/Missile and Space Systems-Basic Resea		79
COVALENT ASSOCIATES INC	Mass	NAVY	RDTE/Missile and Space Systems-Basic Resea		500
DAEDALUS RESEARCH INC	Arizona	NAVY	RDTE/Missile and Space Systems-Basic Resea		499
FERRANTI INSTRUMENTATION LTD	UNITED KIN	ARMY	RDTE/Missile and Space Systems-Basic Resea		104
FERRANTI INTERNATIONAL	UNITED KIN	ARMY	RDTE/Missile and Space Systems-Basic Resea		2,031
GENCORP INC	California	USAF	RDTE/Missile and Space Systems-Basic Resea		167
GENERAL ATOMICS	Arizona	NAVY	RDTE/Missile and Space Systems-Basic Resea		472
GENERAL DYNAMICS CORPORATION	California	NAVY	RDTE/Missile and Space Systems-Basic Resea		1,197
GENERAL ELECTRIC COMPANY	Mass	ARMY	RDTE/Missile and Space Systems-Basic Resea		250
	Penn	USAF	RDTE/Missile and Space Systems-Basic Resea		1,247
	Vermont	ARMY	RDTE/Missile and Space Systems-Basic Resea		47
					1,544
CONTRACTOR TOTAL					
GENERAL PNEUMATICS CORPORATION	Arizona	USAF	RDTE/Missile and Space Systems-Basic Resea		112
GEORGIA TECH RESEARCH CORP	Georgia	ARMY	RDTE/Missile and Space Systems-Basic Resea		550
GORCA SYSTEMS INC	New Jersey	USAF	RDTE/Missile and Space Systems-Basic Resea		1,000

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AC21 (CONTINUED)					
	HARRIS CORPORATION	Florida	ARMY	RDTE/Missile and Space Systems-Basic Resea	250
	HERCULES INCORPORATED	Florida	ARMY	RDTE/Missile and Space Systems-Basic Resea	11,103
	HONEYWELL INC	Minnesota	ARMY	RDTE/Missile and Space Systems-Basic Resea	25
	HUGHES AIRCRAFT COMPANY	Alabama	NAVY	RDTE/Missile and Space Systems-Basic Resea	250
		California	USAF	RDTE/Missile and Space Systems-Basic Resea	174
	CONTRACTOR TOTAL				424
	INFORMATION NETWORK SYSTEMS	California	NAVY	RDTE/Missile and Space Systems-Basic Resea	917
	INTERNATIONAL AERO TECH INC	Arizona	NAVY	RDTE/Missile and Space Systems-Basic Resea	111
	INTERSCIENCE INC	New York	ARMY	RDTE/Missile and Space Systems-Basic Resea	29
	KAMAN SCIENCES CORPORATION	Colorado	ARMY	RDTE/Missile and Space Systems-Basic Resea	2,317
	KOLLMORGEN CORPORATION	Alabama	NAVY	RDTE/Missile and Space Systems-Basic Resea	39
	LOCKHEED SPACE OPERATIONS CO	California	USAF	RDTE/Missile and Space Systems-Basic Resea	11,400-
		Florida	USAF	RDTE/Missile and Space Systems-Basic Resea	10,336
	CONTRACTOR TOTAL				1,064-
	LOCKHEED SYSTEMS COMPANY INC	California	USAF	RDTE/Missile and Space Systems-Basic Resea	195
	LORAL CORPORATION	Arizona	USAF	RDTE/Missile and Space Systems-Basic Resea	526
		California	USAF	RDTE/Missile and Space Systems-Basic Resea	1,210
	CONTRACTOR TOTAL				1,736
	LTV AEROSPACE & DEFENSE CO	Texas	ARMY	RDTE/Missile and Space Systems-Basic Resea	1,168
	MARTIN MARIETTA CORPORATION	Colorado	ARMY	RDTE/Missile and Space Systems-Basic Resea	177
		Florida	NAVY	RDTE/Missile and Space Systems-Basic Resea	1,205
	CONTRACTOR TOTAL				1,382
	MCDONNELL DOUGLAS CORPORATION	Missouri	NAVY	RDTE/Missile and Space Systems-Basic Resea	1,013
	MEGADYNE INC	Virginia	ARMY	RDTE/Missile and Space Systems-Basic Resea	50

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AC21 (CONTINUED)					
	PRC INC	Virginia	ARMY	RDTE/Missile and Space Systems-Basic Resea	99
	RAFAEL ARMANENTS DEVELOPMENT	ISRAEL	NAVY	RDTE/Missile and Space Systems-Basic Resea	101
	RAUFOSS AMMUNISJONSFABRIKKER A	NORWAY	ARMY	RDTE/Missile and Space Systems-Basic Resea	94
	ROCKWELL INTERNATIONAL CORP	Alabama	NAVY	RDTE/Missile and Space Systems-Basic Resea	178
		Colorado	USAF	RDTE/Missile and Space Systems-Basic Resea	50
	CONTRACTOR TOTAL				228
	SATCON TECHNOLOGY CORPORATION	Mass	NAVY	RDTE/Missile and Space Systems-Basic Resea	37
	SC & A INC	California	NAVY	RDTE/Missile and Space Systems-Basic Resea	155
	SCIENCE & TECHNOLOGY ASSOC	Virginia	ARMY	RDTE/Missile and Space Systems-Basic Resea	1,589
	SENSCI CORP	Virginia	ARMY	RDTE/Missile and Space Systems-Basic Resea	100
	SIERRA NEVADA CORPORATION	Nevada	NAVY	RDTE/Missile and Space Systems-Basic Resea	1,850
	SPARTA INC	California	USAF	RDTE/Missile and Space Systems-Basic Resea	1,765
	STANFORD UNIVERSITY	California	ARMY	RDTE/Missile and Space Systems-Basic Resea	844
	SYNETICS CORPORATION	Mass	NAVY	RDTE/Missile and Space Systems-Basic Resea	2,449
	TELEDYNE INDUSTRIES INC	California	NAVY	RDTE/Missile and Space Systems-Basic Resea	25,285
	TEXAS INSTRUMENTS INC	Texas	ARMY	RDTE/Missile and Space Systems-Basic Resea	1,060
	THIOKOL CORPORATION	Utah	USAF	RDTE/Missile and Space Systems-Basic Resea	98
	TRW INC	California	USAF	RDTE/Missile and Space Systems-Basic Resea	153
	UNIVERSITY OF CALIFORNIA	California	USAF	RDTE/Missile and Space Systems-Basic Resea	115
	UNIVERSITY OF DAYTON INC	California	USAF	RDTE/Missile and Space Systems-Basic Resea	2,853
	UNIVERSITY OF TEXAS SYSTEM	Texas	ARMY	RDTE/Missile and Space Systems-Basic Resea	3,280
	VIRGINIA PLYTHNIC INST/Sr UNI	Virginia	USAF	RDTE/Missile and Space Systems-Basic Resea	40
	WESTINGHOUSE ELECTRIC CORP	Arizona	NAVY	RDTE/Missile and Space Systems-Basic Resea	251
	R&D TOTAL				89,802

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R-D DESCRIPTION	\$	
AC22	ADVANCED RES & APPLICATIONS	California	USAF	RDTE/Missile and Space Systems-Exploratory	78	
	AEROJET	California	ARMY	RDTE/Missile and Space Systems-Exploratory	135-	
	AEROSPACE DESIGN & DEV	Colorado	USAF	RDTE/Missile and Space Systems-Exploratory	95	
	ALABAMA CRYOGENIC ENGINEERING	Alabama	NAVY	RDTE/Missile and Space Systems-Exploratory	153	
	ALLIED SIGNAL INC	Arizona	NAVY	RDTE/Missile and Space Systems-Exploratory	42	
	ANAMET LABORATORIES INC	California	NAVY	RDTE/Missile and Space Systems-Exploratory	50	
	APD CRYOGENICS INC	Penn	NAVY	RDTE/Missile and Space Systems-Exploratory	209	
	ATLANTIC RESEARCH CORPORATION	Virginia	USAF	RDTE/Missile and Space Systems-Exploratory	44	
	BUTLER UNIVERSITY	Indiana	USAF	RDTE/Missile and Space Systems-Exploratory	28	
	CALIFORNIA INST OF TECHNOLOGY	California	USAF	RDTE/Missile and Space Systems-Exploratory	103	
	COMPUTER AND CONCEPTS ASSOC	California	NAVY	RDTE/Missile and Space Systems-Exploratory	90	
	EASTERN NEW MEXICO UNIVERSITY	New Mexico	USAF	RDTE/Missile and Space Systems-Exploratory	110	
	EG&G WASHINGTON ANALYTICAL SVC	Virginia	NAVY	RDTE/Missile and Space Systems-Exploratory	3,896	
	FIBER MATERIALS INC	Maine	NAVY	RDTE/Missile and Space Systems-Exploratory	103	
	FMC CORPORATION	Minnesota	NAVY	RDTE/Missile and Space Systems-Exploratory	38	
	FOSTER MILLER INC	Mass	USAF	RDTE/Missile and Space Systems-Exploratory	59	
	GENCORP INC	California	USAF	RDTE/Missile and Space Systems-Exploratory	194	
	GENERAL DYNAMICS CORPORATION	California	ARMY	RDTE/Missile and Space Systems-Exploratory	284-	
			NAVY	RDTE/Missile and Space Systems-Exploratory	399	
			USAF	RDTE/Missile and Space Systems-Exploratory	4,505	
	STATE TOTAL				4,620	
	CONTRACTOR TOTAL					
	GENERAL ELECTRIC COMPANY	Texas	USAF	RDTE/Missile and Space Systems-Exploratory	263	
	GRUMMAN CORPORATION	Penn	ARMY	RDTE/Missile and Space Systems-Exploratory	4,883	
	HARRIS CORPORATION	New York	USAF	RDTE/Missile and Space Systems-Exploratory	5,920	
	HARVARD UNIVERSITY	Florida	USAF	RDTE/Missile and Space Systems-Exploratory	850	
		Mass	USAF	RDTE/Missile and Space Systems-Exploratory	158	
					116	

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AC22 (CONTINUED)					
	HERCULES INCORPORATED	Maryland	USAF	RDTE/Missile and Space Systems-Exploratory	500
		Utah	USAF	RDTE/Missile and Space Systems-Exploratory	368
		W Virginia	NAVY	RDTE/Missile and Space Systems-Exploratory	1,003
	CONTRACTOR TOTAL				1,871
	HIGH Q INC	Mass	NAVY	RDTE/Missile and Space Systems-Exploratory	48
		California	ARMY	RDTE/Missile and Space Systems-Exploratory	41,225
	HUGHES AIRCRAFT COMPANY		NAVY	RDTE/Missile and Space Systems-Exploratory	100
	CONTRACTOR TOTAL				41,325
	INTEGRATED SYSTEMS INC	California	ARMY	RDTE/Missile and Space Systems-Exploratory	615
	L B & M ASSOCIATES INC	Oklahoma	ARMY	RDTE/Missile and Space Systems-Exploratory	250
	LOCKHEED MISSILES & SPACE CO	California	USAF	RDTE/Missile and Space Systems-Exploratory	854
		California	NAVY	RDTE/Missile and Space Systems-Exploratory	340
	LORAL CORPORATION		USAF	RDTE/Missile and Space Systems-Exploratory	3,877
	CONTRACTOR TOTAL				4,217
	LTV AEROSPACE & DEFENSE CO	New York	USAF	RDTE/Missile and Space Systems-Exploratory	225
	M M R TECHNOLOGIES INC	California	NAVY	RDTE/Missile and Space Systems-Exploratory	85
	MAINSTREAM ENGINEERING CO INC	Florida	USAF	RDTE/Missile and Space Systems-Exploratory	50
	MARTIN MARIETTA CORPORATION	Colorado	USAF	RDTE/Missile and Space Systems-Exploratory	255
	MCDONNELL DOUGLAS CORPORATION	Missouri	USAF	RDTE/Missile and Space Systems-Exploratory	5,646
	MCDONNELL DOUGLAS SPACE SYS CO	California	USAF	RDTE/Missile and Space Systems-Exploratory	153
	MCMASTER UNIVERSITY	CANADA	USAF	RDTE/Missile and Space Systems-Exploratory	104
	MEGADYNE INC	Virginia	NAVY	RDTE/Missile and Space Systems-Exploratory	50
	MISSION RESEARCH CORPORATION	California	USAF	RDTE/Missile and Space Systems-Exploratory	280
	MOTOROLA INC	Arizona	NAVY	RDTE/Missile and Space Systems-Exploratory	93
	NIELSEN ENGINEERING & RES	California	NAVY	RDTE/Missile and Space Systems-Exploratory	50

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AC22 (CONTINUED)					
	NORTHWESTERN UNIVERSITY	Illinois	USAF	RDTE/Missile and Space Systems-Exploratory	121
	OAKTREE AUTOMATION INC	Virginia	NAVY	RDTE/Missile and Space Systems-Exploratory	50
	OPTO KNOWLEDGE SYSTEMS INC	California	USAF	RDTE/Missile and Space Systems-Exploratory	53
	ORION INTL TECHNOLOGIES	New Mexico	USAF	RDTE/Missile and Space Systems-Exploratory	28-
	PRINCETON UNIVERSITY	New Jersey	USAF	RDTE/Missile and Space Systems-Exploratory	181
	R & D ASSOCIATES	Virginia	USAF	RDTE/Missile and Space Systems-Exploratory	220
	RAYTHEON COMPANY	Mass	ARMY USAF	RDTE/Missile and Space Systems-Exploratory RDTE/Missile and Space Systems-Exploratory	200 55
			STATE TOTAL		255
	ROCKET RESEARCH CO	Washington	USAF	RDTE/Missile and Space Systems-Exploratory	200
	ROCKWELL INTERNATIONAL CORP	California	USAF	RDTE/Missile and Space Systems-Exploratory	4,320
		Florida	USAF	RDTE/Missile and Space Systems-Exploratory	131
		Georgia	ARMY	RDTE/Missile and Space Systems-Exploratory	37
			CONTRACTOR TOTAL		4,488
	SATCON TECHNOLOGY CORPORATION	Mass	USAF	RDTE/Missile and Space Systems-Exploratory	132
	SILICON DESIGNS INC	Washington	NAVY	RDTE/Missile and Space Systems-Exploratory	57
	SPARTA INC	California	USAF	RDTE/Missile and Space Systems-Exploratory	25
	SRI INTERNATIONAL	California	USAF	RDTE/Missile and Space Systems-Exploratory	93
	SRS TECHNOLOGIES	California	USAF	RDTE/Missile and Space Systems-Exploratory	127
	STERIODS LTD	Illinois	NAVY	RDTE/Missile and Space Systems-Exploratory	468
	TECHNICAL SOLUTIONS INC	New Mexico	ARMY	RDTE/Missile and Space Systems-Exploratory	30
	TEXTRON INC	New York	USAF	RDTE/Missile and Space Systems-Exploratory	139
	THIOLKOL CORPORATION	Utah	USAF	RDTE/Missile and Space Systems-Exploratory	417
	TRIANGLE RESEARCH & DEV CORP	N Carolina	NAVY	RDTE/Missile and Space Systems-Exploratory	50

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AC22 (CONTINUED)

TRW INC	California	USAF	RDTE/Missile and Space Systems-Exploratory	\$	1,139
ULTRAMET	California	USAF	RDTE/Missile and Space Systems-Exploratory		293
UNITED TECHNOLOGIES CORP	California	NAVY	RDTE/Missile and Space Systems-Exploratory		187
	USAF	RDTE/Missile and Space Systems-Exploratory			389
STATE TOTAL					576
	Conn	USAF	RDTE/Missile and Space Systems-Exploratory		227
	Florida	USAF	RDTE/Missile and Space Systems-Exploratory		452
CONTRACTOR TOTAL					1,255
UNIVERSITY OF ARIZONA	Arizona	USAF	RDTE/Missile and Space Systems-Exploratory		80
UNIVERSITY OF CALIFORNIA	California	USAF	RDTE/Missile and Space Systems-Exploratory		350
UNIVERSITY OF HAWAII	Hawaii	USAF	RDTE/Missile and Space Systems-Exploratory		139
UNIVERSITY OF NORTH TEXAS	Texas	USAF	RDTE/Missile and Space Systems-Exploratory		106
UNIVERSITY OF NORTH TEXAS	Texas	USAF	RDTE/Missile and Space Systems-Exploratory		75
UNIVERSITY OF PENNSYLVANIA	Penn	USAF	RDTE/Missile and Space Systems-Exploratory		87
VERSATRON CORPORATION	California	NAVY	RDTE/Missile and Space Systems-Exploratory		50
WILLIAMS INTERNATIONAL CORP	Michigan	NAVY	RDTE/Missile and Space Systems-Exploratory		162
ZAK RESEARCH	California	NAVY	RDTE/Missile and Space Systems-Exploratory		79
R&D TOTAL					84,148
AC23 A K M ASSOC INC	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De		50
A P A OPTICS INC	Minnesota	ARMY	RDTE/Missile and Space Systems-Advanced De		184
A T S S INC	California	ARMY	RDTE/Missile and Space Systems-Advanced De		250
AC INC	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De		577
ACTA INCORPORATED	California	USAF	RDTE/Missile and Space Systems-Advanced De		58
ACUREX CORPORATION	California	USAF	RDTE/Missile and Space Systems-Advanced De		996

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AC23 (CONTINUED)					
	ADROIT SYSTEMS INC	Virginia	ARMY	RDTE/Missile and Space Systems-Advanced De	47
	ADVANCED DEVICE TECHNOLOGY INC	N.H.	USAF	RDTE/Missile and Space Systems-Advanced De	50
	ADVANCED FUEL RESEARCH INC	Conn	ARMY	RDTE/Missile and Space Systems-Advanced De	217
	ADVANCED RES & APPLICATIONS	California	USAF	RDTE/Missile and Space Systems-Advanced De	904
	ADVANCED SCIENCES INC	New Mexico	ARMY	RDTE/Missile and Space Systems-Advanced De	2,174
			USAF	RDTE/Missile and Space Systems-Advanced De	133
			STATE TOTAL		2,307
	ADVANCED SCIENTIFIC CONCEPTS	California	ARMY	RDTE/Missile and Space Systems-Advanced De	51
	ADVANCED TECHNOLOGY MATERIALS	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	55
		Conn	ARMY	RDTE/Missile and Space Systems-Advanced De	301
	CONTRACTOR TOTAL				356
	AEROJET	California	ARMY	RDTE/Missile and Space Systems-Advanced De	14,976
			NAVY	RDTE/Missile and Space Systems-Advanced De	343
			USAF	RDTE/Missile and Space Systems-Advanced De	2,342
			STATE TOTAL		17,661
	AEROMET INC	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	48
		Oklahoma	ARMY	RDTE/Missile and Space Systems-Advanced De	3,685
	CONTRACTOR TOTAL				3,732
	AEROSPACE DESIGN & DEV	Colorado	USAF	RDTE/Missile and Space Systems-Advanced De	47
	ALABAMA A & M UNIVERSITY	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	209
	ALLIANT TECHSYSTEMS INC	Penn	ARMY	RDTE/Missile and Space Systems-Advanced De	100
	ALLIED SIGNAL AEROSPACE CO	California	USAF	RDTE/Missile and Space Systems-Advanced De	731
		Maryland	NAVY	RDTE/Missile and Space Systems-Advanced De	2,123
	CONTRACTOR TOTAL				2,854
	ALLIED SIGNAL INC	New Jersey	ARMY	RDTE/Missile and Space Systems-Advanced De	99

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R&D	CONTRACTOR NAME	ST/CONTRY	DEPT	R&D DESCRIPTION	
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AC23 (CONTINUED)

ALUMINUM COMPANY OF AMERICA	Penn	USAF	RDTE/Missile and Space Systems-Advanced De	\$	240
AMERICAN RESEARCH CORP	Virginia	ARMY	RDTE/Missile and Space Systems-Advanced De		108
AMERICAN TELEPHONE & TELG CO	N Carolina	ARMY	RDTE/Missile and Space Systems-Advanced De		
ANALOG DEVICES INC	Mass	ARMY	RDTE/Missile and Space Systems-Advanced De		434
ANDROMEDA CORP	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De		100
APPLIED REMOTE TECHNOLOGY	California	ARMY	RDTE/Missile and Space Systems-Advanced De		99
APPLIED RESEARCH ASSOC INC	New Mexico	ARMY	RDTE/Missile and Space Systems-Advanced De		150
APPLIED RESEARCH INC	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De		1,297
APPLIED SCIENCES INC	Ohio	ARMY USAF	RDTE/Missile and Space Systems-Advanced De RDTE/Missile and Space Systems-Advanced De		49 89
		STATE TOTAL			138
APTEK INC	Colorado	USAF	RDTE/Missile and Space Systems-Advanced De		441-
ASTROSYSTEMS INC	Delaware	ARMY USAF	RDTE/Missile and Space Systems-Advanced De RDTE/Missile and Space Systems-Advanced De		51 149
		STATE TOTAL			200
ATHENA GROUP THE	Florida	ARMY	RDTE/Missile and Space Systems-Advanced De		55
AURA SYSTEMS	California	USAF	RDTE/Missile and Space Systems-Advanced De		911
AURORA ASSOCIATES	California	ARMY	RDTE/Missile and Space Systems-Advanced De		50
AUTOMATED SCIENCES GROUP INC	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De		13,179
AUTONOMOUS TECHNOLOGIES CORP	Florida	ARMY	RDTE/Missile and Space Systems-Advanced De		397
AVCO CORPORATION	Mass	ARMY USAF	RDTE/Missile and Space Systems-Advanced De RDTE/Missile and Space Systems-Advanced De		100 144-
		STATE TOTAL			44-
AVCO RESEARCH LABORATORY INC	Mass	ARMY	RDTE/Missile and Space Systems-Advanced De		4,590
BALL CORPORATION	Colorado	ARMY	RDTE/Missile and Space Systems-Advanced De		64

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AC23 (CONTINUED)					
	BATTELLE MEMORIAL INSTITUTE	Ohio	ARMY USAF	RDTE/Missile and Space Systems-Advanced De RDTE/Missile and Space Systems-Advanced De	\$ 2,162 35-
		STATE TOTAL			2,127
	BDM INTERNATIONAL INC	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	5,707
	BGEING AEROSPACE & ELECTRONICS	Washington	ARMY USAF	RDTE/Missile and Space Systems-Advanced De RDTE/Missile and Space Systems-Advanced De	55,683 42,634
		STATE TOTAL			98,317
	BOEING COMPANY THE	Kansas	USAF	RDTE/Missile and Space Systems-Advanced De	3,200
		Washington	USAF	RDTE/Missile and Space Systems-Advanced De	8,973
					12,173
	CONTRACTOR TOTAL				1,329
	BOOZ ALLEN & HAMILTON INC	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	284
	BREWER SCIENCE INC	Missouri	ARMY	RDTE/Missile and Space Systems-Advanced De	63
	CAPE COD RESEARCH INC	Mass	ARMY	RDTE/Missile and Space Systems-Advanced De	2,109
	CAS INC	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	47
	CHARLES SYSTEMS CORP	Michigan	ARMY	RDTE/Missile and Space Systems-Advanced De	51
	CHIRP CORP	California	ARMY	RDTE/Missile and Space Systems-Advanced De	12,580
	COLEMAN RESEARCH CORPORATION	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	20,273
	COLSA INC	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	53
	COMPLEX SYSTEMS RESEARCH INC	Virginia	ARMY	RDTE/Missile and Space Systems-Advanced De	386
	CONTRAVES USA INC	Penn	USAF	RDTE/Missile and Space Systems-Advanced De	1,645
	CREARE INC	N.H.	USAF	RDTE/Missile and Space Systems-Advanced De	50
	CREARE RESEARCH & DEVELOPMENT	N.H.	ARMY	RDTE/Missile and Space Systems-Advanced De	40
	DATA DESIGN LABORATORIES	Virginia	NAVY	RDTE/Missile and Space Systems-Advanced De	425
	DEACON RESEARCH	California	ARMY	RDTE/Missile and Space Systems-Advanced De	948
	DELTA RESEARCH INC	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	

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R&D	CONTRACTOR NAME	ST/CONTRY	DEPT	R&D DESCRIPTION	
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AC23 (CONTINUED)

DESE RESEARCH & ENGINEERING	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	\$	50
DISPLAYTECH INC	Colorado	ARMY	RDTE/Missile and Space Systems-Advanced De		56
DRAPER CHARLES STARK LAB INC	Mass	ARMY	RDTE/Missile and Space Systems-Advanced De		776
		NAVY	RDTE/Missile and Space Systems-Advanced De		75
		USAF	RDTE/Missile and Space Systems-Advanced De		38,702
					39,553
		STATE TOTAL			
DUKE UNIVERSITY	N Carolina	ARMY	RDTE/Missile and Space Systems-Advanced De		521
DUNLOP AVIATION INC	UNITED KIN	USAF	RDTE/Missile and Space Systems-Advanced De		38-
DYNACS ENGINEERING CO INC	Florida	USAF	RDTE/Missile and Space Systems-Advanced De		124
DYNAMICS TECHNOLOGY	California	USAF	RDTE/Missile and Space Systems-Advanced De		161
DYNETICS INC	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De		2,991
EER SYSTEMS CORPORATION	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De		40-
EHRENPREIS DAVID B	New Jersey	NAVY	RDTE/Missile and Space Systems-Advanced De		207
EL DORADO ENGINEERING INC	Utah	ARMY	RDTE/Missile and Space Systems-Advanced De		46
ELECTRO OPTEK CORPORATION	California	ARMY	RDTE/Missile and Space Systems-Advanced De		50
EMCORE CORPORATION	New Jersey	ARMY	RDTE/Missile and Space Systems-Advanced De		99
ENERGY SCIENCE LABORATORIES	California	ARMY	RDTE/Missile and Space Systems-Advanced De		100
EPION CORP	Mass	ARMY	RDTE/Missile and Space Systems-Advanced De		250
ESSEX CORPORATION	Maryland	ARMY	RDTE/Missile and Space Systems-Advanced De		75
FIBER & SENSOR TECHNOLOGIES	Virginia	USAF	RDTE/Missile and Space Systems-Advanced De		49
FIBER CONCEPTS	New Jersey	ARMY	RDTE/Missile and Space Systems-Advanced De		51
FIBER MATERIALS INC	Maine	ARMY	RDTE/Missile and Space Systems-Advanced De		387
FLAM & RUSSELL INC	Penn	ARMY	RDTE/Missile and Space Systems-Advanced De		50
FLIGHT MECHANICS & CONTROL	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De		48
FLORIDA A & M UNIVERSITY	Florida	ARMY	RDTE/Missile and Space Systems-Advanced De		45

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AC23 (CONTINUED)					
	FLOUROCHEM INC	California	ARMY	RDTE/Missile and Space Systems-Advanced De	56
	FLOW INDUSTRIES INC	Washington	ARMY	RDTE/Missile and Space Systems-Advanced De	56
	FOSTER MILLER INC	Mass	ARMY	RDTE/Missile and Space Systems-Advanced De	252
	G T DEVICES INC	Virginia	ARMY	RDTE/Missile and Space Systems-Advanced De	292
	GEMINI COMPUTERS INCORPORATED	California	ARMY	RDTE/Missile and Space Systems-Advanced De	1,133
	GENCORP INC	California	USAF	RDTE/Missile and Space Systems-Advanced De	15,390
	GENERAL DYNAMICS CORPORATION	California	ARMY	RDTE/Missile and Space Systems-Advanced De	419
			USAF	RDTE/Missile and Space Systems-Advanced De	61
	STATE TOTAL				480
	CONTRACTOR TOTAL				
	GENERAL ELECTRIC COMPANY	Ohio	ARMY	RDTE/Missile and Space Systems-Advanced De	171
					651
		Mass	USAF	RDTE/Missile and Space Systems-Advanced De	1,578
		New Jersey	ARMY	RDTE/Missile and Space Systems-Advanced De	1,321
		New York	ARMY	RDTE/Missile and Space Systems-Advanced De	639
		Penn	USAF	RDTE/Missile and Space Systems-Advanced De	6,904
	CONTRACTOR TOTAL				10,442
	GENERAL RESEARCH CORPORATION	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	3,508
		California	USAF	RDTE/Missile and Space Systems-Advanced De	35
		Virginia	ARMY	RDTE/Missile and Space Systems-Advanced De	1,125
					4,668
	CONTRACTOR TOTAL				3,442
	GEORGIA TECH RESEARCH CORP	Georgia	ARMY	RDTE/Missile and Space Systems-Advanced De	72
	GIGABIT LOGIC INC	California	USAF	RDTE/Missile and Space Systems-Advanced De	
	GRUMMAN AEROSPACE CORPORATION	New York	ARMY	RDTE/Missile and Space Systems-Advanced De	18,401
	GRUMMAN DATA SYSTEMS CORP	New York	ARMY	RDTE/Missile and Space Systems-Advanced De	15,836



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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AC23 (CONTINUED)					
	GTE GOVERNMENT SYSTEMS CORP	California	USAF	RDTE/Missile and Space Systems--Advanced De	\$ 2,964
	GUMBS ASSOCIATES INC	Penn	ARMY	RDTE/Missile and Space Systems--Advanced De	51
	HARRIS CORPORATION	Florida	ARMY	RDTE/Missile and Space Systems--Advanced De	3,361
		N Carolina	ARMY	RDTE/Missile and Space Systems--Advanced De	1,089
	CONTRACTOR TOTAL				4,450
	HI SHEAR CORPORATION	California	NAVY	RDTE/Missile and Space Systems--Advanced De	72
	HILTON SYSTEMS INC	Alabama	ARMY	RDTE/Missile and Space Systems--Advanced De	42
	HOLLI RESEARCH	California	USAF	RDTE/Missile and Space Systems--Advanced De	49
	HONEYWELL INC	Arizona	ARMY	RDTE/Missile and Space Systems--Advanced De	200
		Florida	USAF	RDTE/Missile and Space Systems--Advanced De	13,339
		Minnesota	ARMY	RDTE/Missile and Space Systems--Advanced De	7,046
	CONTRACTOR TOTAL				20,585
	HUGHES AIRCRAFT COMPANY	Alabama	ARMY	RDTE/Missile and Space Systems--Advanced De	22,000
		California	ARMY USAF	RDTE/Missile and Space Systems--Advanced De RDTE/Missile and Space Systems--Advanced De	15,299 19,667
	STATE TOTAL				34,966
	CONTRACTOR TOTAL				56,966
	HYPRES INC	New York	ARMY	RDTE/Missile and Space Systems--Advanced De	51
	I I T RESEARCH INSTITUTE	Illinois	USAF	RDTE/Missile and Space Systems--Advanced De	120
	IMAGING SCIENCE TECHNOLOGIES	Virginia	USAF	RDTE/Missile and Space Systems--Advanced De	544
IMPACT TECHNOLOGIES INC	Virginia	ARMY USAF	RDTE/Missile and Space Systems--Advanced De RDTE/Missile and Space Systems--Advanced De	46 27	
STATE TOTAL				73	
IMPLANT SCIENCES CORPORATION	Mass	ARMY	RDTE/Missile and Space Systems--Advanced De	50	
INDUSTRIAL SENSORS & ACTUATORS	California	ARMY	RDTE/Missile and Space Systems--Advanced De	50	

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AC23 (CONTINUED)					
	INTEGRATED APPLIED PHYSICS	California	ARMY	RDTE/Missile and Space Systems-Advanced De	51
	INTEGRATED SYSTEM ASSEMBLIES	New York	ARMY	RDTE/Missile and Space Systems-Advanced De	51
	INTEGRATED SYSTEMS INC	California	USAF	RDTE/Missile and Space Systems-Advanced De	236
		Georgia	USAF	RDTE/Missile and Space Systems-Advanced De	177
	CONTRACTOR TOTAL				413
	INTELLIGENT AUTOMATION INC	Maryland	ARMY	RDTE/Missile and Space Systems-Advanced De	67
	INTERFEROMETRICS INC	Virginia	ARMY	RDTE/Missile and Space Systems-Advanced De	49
	INTERNATIONAL BUS MCHS CORP	New York	ARMY	RDTE/Missile and Space Systems-Advanced De	3,079
		Virginia	USAF	RDTE/Missile and Space Systems-Advanced De	15,310
	CONTRACTOR TOTAL				22,389
	INTERNATIONAL SOFTWARE SYSTEMS	Texas	ARMY	RDTE/Missile and Space Systems-Advanced De	1,328
	INTERNETNAL TCHNCAL ASSOCIATES	California	USAF	RDTE/Missile and Space Systems-Advanced De	450
	IONIC ATLANTA INCORPORATED	Georgia	ARMY	RDTE/Missile and Space Systems-Advanced De	89
	IOWA LASER TECHNOLOGY INC	Iowa	ARMY	RDTE/Missile and Space Systems-Advanced De	98
	IRVINE SENSORS CORPORATION	California	ARMY	RDTE/Missile and Space Systems-Advanced De	1,067
	ISRAEL AIRCRAFT INDUSTRIES LTD	ISRAEL	ARMY	RDTE/Missile and Space Systems-Advanced De	37,440
	JAYCOR	California	ARMY	RDTE/Missile and Space Systems-Advanced De	2,820
	JOHNS HOPKINS UNIVERSITY	Maryland	ARMY	RDTE/Missile and Space Systems-Advanced De	148
	K M S FUSION INC	Michigan	ARMY	RDTE/Missile and Space Systems-Advanced De	48
	KAISER AEROSPACE & ELEC CORP	California	USAF	RDTE/Missile and Space Systems-Advanced De	196
	KAMAN SCIENCES CORPORATION	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	6,408
		Colorado	ARMY	RDTE/Missile and Space Systems-Advanced De	2,714
	CONTRACTOR TOTAL				9,122
	KDI PRECISION PRODUCTS INC	Ohio	NAVY	RDTE/Missile and Space Systems-Advanced De	140

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AC23 (CONTINUED)					
	KRAMER & ASSOCIATES	New Mexico	ARMY	RDTE/Missile and Space Systems-Advanced De	\$ 49
	KTECH CORPORATION	New Mexico	ARMY	RDTE/Missile and Space Systems-Advanced De	380
	L GARDE INC	California	USAF	RDTE/Missile and Space Systems-Advanced De	132
	LASER SCIENCE INC	Mass	NAVY	RDTE/Missile and Space Systems-Advanced De	386
	LITECOM INC	California	USAF	RDTE/Missile and Space Systems-Advanced De	314
	LITTLE ARTHUR D INC	Mass	USAF	RDTE/Missile and Space Systems-Advanced De	1,511
	LITTON SYSTEMS INC	California	ARMY USAF	RDTE/Missile and Space Systems-Advanced De RDTE/Missile and Space Systems-Advanced De	219 6,222
		STATE TOTAL			6,441
	LOCKHEED MISSILES & SPACE CO	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	7,542
		California	ARMY USAF	RDTE/Missile and Space Systems-Advanced De RDTE/Missile and Space Systems-Advanced De	83,505 4,630
		STATE TOTAL			88,135
	CONTRACTOR TOTAL				95,677
	LONE PEAK ENGINEERING INC	Utah	USAF	RDTE/Missile and Space Systems-Advanced De	53
	LORAL CORPORATION	California	ARMY	RDTE/Missile and Space Systems-Advanced De	426
		Colorado	ARMY	RDTE/Missile and Space Systems-Advanced De	178
		Mass	ARMY	RDTE/Missile and Space Systems-Advanced De	2,907
		Texas	ARMY	RDTE/Missile and Space Systems-Advanced De	67
	CONTRACTOR TOTAL				3,578
	LTV AEROSPACE & DEFENSE CO	Texas	ARMY	RDTE/Missile and Space Systems-Advanced De	101,863
	MAINSTREAM ENGINEERING CO INC	Florida	USAF	RDTE/Missile and Space Systems-Advanced De	50
	MARTIN MARIETTA CORPORATION	Colorado	ARMY USAF	RDTE/Missile and Space Systems-Advanced De RDTE/Missile and Space Systems-Advanced De	90 17,580
		STATE TOTAL			17,670

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	-R&D DESCRIPTION-	
AC23 (CONTINUED)					
	CONTRACTOR TOTAL				\$
	MATERIALS MODIFICATION INC	Florida	ARMY	RDTE/Missile and Space Systems-Advanced De	7,259
					24,929
	MATERIALS TECHNOLOGIES CORP	Virginia	ARMY	RDTE/Missile and Space Systems-Advanced De	214
		Conn	ARMY	RDTE/Missile and Space Systems-Advanced De	223
	MAYO FOUNDATION	Minnesota	NAVY	RDTE/Missile and Space Systems-Advanced De	3,016
	MC DANIEL JOHN L ENTERPRISES	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	49
	MCDONNELL DOUGLAS CORPORATION	Missouri	ARMY	RDTE/Missile and Space Systems-Advanced De	652
			USAF	RDTE/Missile and Space Systems-Advanced De	778
	STATE TOTAL				1,430
	MCDONNELL DOUGLAS SPACE SYS CO	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	327
		California	ARMY	RDTE/Missile and Space Systems-Advanced De	121,116
			USAF	RDTE/Missile and Space Systems-Advanced De	218-
	STATE TOTAL				120,898
		Missouri	ARMY	RDTE/Missile and Space Systems-Advanced De	872
	CONTRACTOR TOTAL				122,097
	MECHANICAL TECHNOLOGY INC	New York	USAF	RDTE/Missile and Space Systems-Advanced De	100
	MESILLA VALLEY HIGH TECH IND	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	5,376
	METROLASER	California	ARMY	RDTE/Missile and Space Systems-Advanced De	51
	MEVATEC CORPORATION	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	125
	MICROCOM CORPORATION	Penn	NAVY	RDTE/Missile and Space Systems-Advanced De	1,311
	MICROCOSM	California	USAF	RDTE/Missile and Space Systems-Advanced De	529
	MICROSCIENCE INC	Mass	ARMY	RDTE/Missile and Space Systems-Advanced De	49
	MIRAGE SYSTEMS	California	NAVY	RDTE/Missile and Space Systems-Advanced De	56
		Virginia	ARMY	RDTE/Missile and Space Systems-Advanced De	110
	CONTRACTOR TOTAL				166
	MISSION RESEARCH CORPORATION	California	ARMY	RDTE/Missile and Space Systems-Advanced De	70

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	--R&D DESCRIPTION--	
AC23 (CONTINUED)					
			USAF	RDTE/Missile and Space Systems-Advanced De	\$ 195
		STATE TOTAL			265
		Colorado	ARMY	RDTE/Missile and Space Systems-Advanced De	495
		New Mexico	ARMY	RDTE/Missile and Space Systems-Advanced De	1,195
	CONTRACTOR TOTAL				1,955
	MOTOROLA INC	Arizona	NAVY	RDTE/Missile and Space Systems-Advanced De	1,927
	NATIONAL STEEL & SHPBLDING CO	California	NAVY	RDTE/Missile and Space Systems-Advanced De	423
	NATIVE AMERICAN SERVICE ASSN	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	100
	NEW MEXICO INST OF MIN TCHNLGY	New Mexico	USAF	RDTE/Missile and Space Systems-Advanced De	84-
	NICHOLS RESEARCH CORPORATION	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	22,555
		Ohio	USAF	RDTE/Missile and Space Systems-Advanced De	2,208
	CONTRACTOR TOTAL				24,763
	NIMBLE COMPUTER CORPORATION	California	ARMY	RDTE/Missile and Space Systems-Advanced De	50
	NORTH CAROLINA A&T UNIV	N Carolina	ARMY	RDTE/Missile and Space Systems-Advanced De	60
	NORTH CAROLINA STATE UNIV	N Carolina	ARMY	RDTE/Missile and Space Systems-Advanced De	105
	NORTHROP CORPORATION	California	USAF	RDTE/Missile and Space Systems-Advanced De	114-
	NORTHWEST RESEARCH ASSOCIATES	Washington	USAF	RDTE/Missile and Space Systems-Advanced De	191
	NOVA ELECTRONICS & SOFTWARE	California	ARMY	RDTE/Missile and Space Systems-Advanced De	50
	ODYSSEY RESEARCH ASSOCIATES	Mass	ARMY	RDTE/Missile and Space Systems-Advanced De	61
	ORION INTL TECHNOLOGIES	New Mexico	USAF	RDTE/Missile and Space Systems-Advanced De	508
	PHASE IV SYSTEMS INCORPORATED	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	1,635
	PHOTEL INC	California	ARMY	RDTE/Missile and Space Systems-Advanced De	43
	PHOTON RESEARCH ASSOCIATES	California	ARMY	RDTE/Missile and Space Systems-Advanced De	48
	PHYSICAL OPTICS CORPORATION	California	ARMY	RDTE/Missile and Space Systems-Advanced De	192

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AC23 (CONTINUED)

PHYSICAL RESEARCH INC	California	ARMY	RDTE/Missile and Space Systems-Advanced De	\$	977
PHYSICON INC	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De		2,330
POLYTECHNIC UNIV OF NEW YORK	New York	ARMY	RDTE/Missile and Space Systems-Advanced De		100
POSITECH INC	S Carolina	ARMY	RDTE/Missile and Space Systems-Advanced De		51
PURDUE UNIVERSITY	Indiana	USAF	RDTE/Missile and Space Systems-Advanced De		26
QSOURCE INC	Conn	ARMY	RDTE/Missile and Space Systems-Advanced De		55
QUANTUM EPITAXIAL DESIGNS INC	Penn	ARMY	RDTE/Missile and Space Systems-Advanced De		55
QUEUEING SYSTEMS INC	California	ARMY	RDTE/Missile and Space Systems-Advanced De		136
R & D ASSOCIATES	Virginia	USAF	RDTE/Missile and Space Systems-Advanced De		146
RACAL RECORDERS INC	California	NAVY	RDTE/Missile and Space Systems-Advanced De		87
RAM SYS GMBH	GERMANY	NAVY	RDTE/Missile and Space Systems-Advanced De		2,228
RASOR ASSOCIATES INC	California	USAF	RDTE/Missile and Space Systems-Advanced De		50
RAYMOND ENGINEERING INC	Conn	NAVY	RDTE/Missile and Space Systems-Advanced De		1,423
RAYTHEON COMPANY	California	USAF	RDTE/Missile and Space Systems-Advanced De		641-
	Mass	ARMY	RDTE/Missile and Space Systems-Advanced De		21,976
CONTRACTOR TOTAL					21,335
RDR INC	Virginia	ARMY	RDTE/Missile and Space Systems-Advanced De		747
REFRACTORY COMPOSITES INC	California	USAF	RDTE/Missile and Space Systems-Advanced De		50
RESEARCH & DEV LABORATORIES	California	USAF	RDTE/Missile and Space Systems-Advanced De		197
ROCKWELL INTERNATIONAL CORP	California	ARMY	RDTE/Missile and Space Systems-Advanced De		67,174
		USAF	RDTE/Missile and Space Systems-Advanced De		22,915
STATE TOTAL					90,089
	Colorado	USAF	RDTE/Missile and Space Systems-Advanced De		200
	Georgia	ARMY	RDTE/Missile and Space Systems-Advanced De		244

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AC23 (CONTINUED)

## CONTRACTOR TOTAL

RYAN ASSOCIATES	Mass	USAF	RDTE/Missile and Space Systems-Advanced De	\$ 90,533
S K W CORP	Virginia	ARMY	RDTE/Missile and Space Systems-Advanced De	33
S S G INC	Mass	ARMY	RDTE/Missile and Space Systems-Advanced De	50
S SYSTEMS CORPORATION	California	USAF	RDTE/Missile and Space Systems-Advanced De	92
SCHMIDT INSTRUMENTS	Texas	ARMY	RDTE/Missile and Space Systems-Advanced De	4,861
SCHWARTZ ELECTRO-OPTICS INC	Florida	USAF	RDTE/Missile and Space Systems-Advanced De	180
SCIENCE APPLICATIONS INTL CORP	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	317
	California	ARMY	RDTE/Missile and Space Systems-Advanced De	1,682
	NAVY	RDTE/Missile and Space Systems-Advanced De	550	
	USAF	RDTE/Missile and Space Systems-Advanced De	280	
			651	

## STATE TOTAL

1,481

## CONTRACTOR TOTAL

SCIENCE RESEARCH LABORATORY	Virginia	ARMY	RDTE/Missile and Space Systems-Advanced De	175
SCIENTIFIC RESEARCH ASSOC INC	Mass	ARMY	RDTE/Missile and Space Systems-Advanced De	3,338
SCIENTIFIC RESEARCH CORP	Conn	ARMY	RDTE/Missile and Space Systems-Advanced De	369
SEIDCON INC	Georgia	ARMY	RDTE/Missile and Space Systems-Advanced De	251
SEMTEC INC	California	ARMY	RDTE/Missile and Space Systems-Advanced De	175
SIGMATECH INC	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	50
SOFTWARE & ENGINEERING ASSOC	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	292
SOUTHERN RESEARCH INSTITUTE	Nevada	USAF	RDTE/Missile and Space Systems-Advanced De	243
SPACE DATA CORPORATION	Alabama	USAF	RDTE/Missile and Space Systems-Advanced De	419
	Arizona	ARMY	RDTE/Missile and Space Systems-Advanced De	37-
	USAF	RDTE/Missile and Space Systems-Advanced De	8,844	
			7,111	

## STATE TOTAL

15,955

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R&D	CONTRACTOR NAME	ST/CONTRY	DEPT	R&D DESCRIPTION	\$
AC23 (CONTINUED)					
	SPACE POWER INCORPORATED	California	USAF	RDTE/Missile and Space Systems-Advanced De	97
	SPACE SYSTEMS ANALYSIS INC	Texas	ARMY	RDTE/Missile and Space Systems-Advanced De	51
	SPACE TEC VENTURES	Virginia	USAF	RDTE/Missile and Space Systems-Advanced De	60
	SPACE TECH CORP	Colorado	ARMY	RDTE/Missile and Space Systems-Advanced De	272
	SPARTA INC	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	3,602
		California	ARMY	RDTE/Missile and Space Systems-Advanced De	11,520
			USAF	RDTE/Missile and Space Systems-Advanced De	2,822
	STATE TOTAL				14,342
	CONTRACTOR TOTAL				150
		Virginia	ARMY	RDTE/Missile and Space Systems-Advanced De	18,094
	SPECTRUM MATERIALS I	Georgia	ARMY	RDTE/Missile and Space Systems-Advanced De	52
	SPECTRUM RESEARCH INC	California	USAF	RDTE/Missile and Space Systems-Advanced De	840
	SPIRE CORPORATION	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	78
		Mass	ARMY	RDTE/Missile and Space Systems-Advanced De	720
			USAF	RDTE/Missile and Space Systems-Advanced De	393
	STATE TOTAL				1,113
	CONTRACTOR TOTAL				1,191
	SRI INTERNATIONAL	California	USAF	RDTE/Missile and Space Systems-Advanced De	150
	SRS TECHNOLOGIES	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	1,220
		California	USAF	RDTE/Missile and Space Systems-Advanced De	131
	CONTRACTOR TOTAL				1,351
	SUMMA TECHNOLOGY INC	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	1,159
	SUNDSTRAND DATA CONTROL INC	Washington	USAF	RDTE/Missile and Space Systems-Advanced De	1,916
	SUNOL SCIENCES CORP	California	USAF	RDTE/Missile and Space Systems-Advanced De	374
	SUPERCONDUCTOR TECHNOLOGIES	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	61
		California	ARMY	RDTE/Missile and Space Systems-Advanced De	61

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R&D	CONTRACTOR NAME	ST/CONTRY	DEPT	R&D DESCRIPTION	
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AC23 (CONTINUED)

CONTRACTOR TOTAL					\$	122
SUPERCONIX INC	Minnesota	ARMY		RDTE/Missile and Space Systems-Advanced De		51
SYSTEM PLANNING CORPORATION	Virginia	ARMY		RDTE/Missile and Space Systems-Advanced De		130
SYSTEMS CONTROL TECHNOLOGY	California	USAF		RDTE/Missile and Space Systems-Advanced De		54
TACAN CORPORATION	California	ARMY		RDTE/Missile and Space Systems-Advanced De		138
TADIRAN ISRAEL ELECTRONICS IND	ISRAEL	ARMY		RDTE/Missile and Space Systems-Advanced De		11,991
TECH QUEST INC	Alabama	ARMY		RDTE/Missile and Space Systems-Advanced De		213
TECHNO SCIENCES INC	Maryland	USAF		RDTE/Missile and Space Systems-Advanced De		163
TECHNOLOGY APPLICATIONS	California	ARMY		RDTE/Missile and Space Systems-Advanced De		475
TECHNOLOGY DEVELOPMENT CORP	Alabama	ARMY		RDTE/Missile and Space Systems-Advanced De		4,150
TECOLOTE RESEARCH INC	Alabama	ARMY		RDTE/Missile and Space Systems-Advanced De		826
TELEDYNE INDUSTRIES INC	Alabama	ARMY		RDTE/Missile and Space Systems-Advanced De		71,478
TETRA CORPORATION	New Mexico	ARMY		RDTE/Missile and Space Systems-Advanced De		66
TEXAS A & M UNIV SYS THE	Texas	ARMY		RDTE/Missile and Space Systems-Advanced De		40
TEXAS INSTRUMENTS INC	Texas	USAF		RDTE/Missile and Space Systems-Advanced De		2,184
TEXTRON INC	Mass	ARMY		RDTE/Missile and Space Systems-Advanced De		350
	New York	USAF		RDTE/Missile and Space Systems-Advanced De		1,846
CONTRACTOR TOTAL						2,196
THERMACORE INC	Penn	ARMY		RDTE/Missile and Space Systems-Advanced De		67
THERMO ELCTRON TCHNOLOGIES CORP	California	ARMY		RDTE/Missile and Space Systems-Advanced De		1,251
THIOKOL CORPORATION	Alabama	ARMY		RDTE/Missile and Space Systems-Advanced De		2,914
	Maryland	USAF		RDTE/Missile and Space Systems-Advanced De		2,321
	Utah	NAVY		RDTE/Missile and Space Systems-Advanced De		2,099
CONTRACTOR TOTAL						7,334

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AC23 (CONTINUED)					
	TRACOR AEROSPACE INC	California	NAVY	RDTE/Missile and Space Systems-Advanced De	90
	TRACOR INC	Texas	USAF	RDTE/Missile and Space Systems-Advanced De	400
	TRW INC	Ala a	ARMY	RDTE/Missile and Space Systems-Advanced De	4,336
		California	ARMY	RDTE/Missile and Space Systems-Advanced De	3,810
			USAF	RDTE/Missile and Space Systems-Advanced De	10,279
	STATE TOTAL				14,089
					18,425
	CONTRACTOR TOTAL				60
	TUSKEGEE UNIVERSITY	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	705
	TYBRIN CORPORATION	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	51
	ULTRAMET	California	ARMY	RDTE/Missile and Space Systems-Advanced De	50
			USAF	RDTE/Missile and Space Systems-Advanced De	101
	STATE TOTAL				351
	UNITED INTERNATIONAL ENGRG	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	28-
		New Mexico	ARMY	RDTE/Missile and Space Systems-Advanced De	323
	CONTRACTOR TOTAL				2,482
	UNITED KINGDOM MINISTRY OF DEF	UNITED KIN	ARMY	RDTE/Missile and Space Systems-Advanced De	1,729
	UNITED TECHNOLOGIES CORP	Conn	USAF	RDTE/Missile and Space Systems-Advanced De	2,986
	UNIVERSITY OF ALABAMA	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	123-
	UNIVERSITY OF CALIFORNIA	California	ARMY	RDTE/Missile and Space Systems-Advanced De	100
	UNIVERSITY OF CAMBRIDGE	UNITED KIN	ARMY	RDTE/Missile and Space Systems-Advanced De	29
	UNIVERSITY OF COLORADO	Colorado	ARMY	RDTE/Missile and Space Systems-Advanced De	210
	UNIVERSITY OF FLORIDA	Florida	ARMY	RDTE/Missile and Space Systems-Advanced De	36
	UNIVERSITY OF HOUSTON SYSTEM	Texas	ARMY	RDTE/Missile and Space Systems-Advanced De	75
	UNIVERSITY OF ILLINOIS	Illinois	ARMY	RDTE/Missile and Space Systems-Advanced De	31
			USAF	RDTE/Missile and Space Systems-Advanced De	106
	STATE TOTAL				

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AC23 (CONTINUED)					
	UNIVERSITY OF MARYLAND	Maryland	ARMY	RDTE/Missile and Space Systems-Advanced De	130
	UNIVERSITY OF PITTSBURGH	Penn	USAF	RDTE/Missile and Space Systems-Advanced De	107
	UNIVERSITY OF TENNESSEE	Tennessee	ARMY	RDTE/Missile and Space Systems-Advanced De	327
	UNIVERSITY OF TEXAS ARLINGTON	Texas	ARMY	RDTE/Missile and Space Systems-Advanced De	140
	UNIVERSITY OF TEXAS SYSTEM	Texas	ARMY	RDTE/Missile and Space Systems-Advanced De	200
	VITRO CORPORATION	Maryland	NAVY	RDTE/Missile and Space Systems-Advanced De	3,296
	VSE CORPORATION	Virginia	ARMY	RDTE/Missile and Space Systems-Advanced De	4,072
	WESTINGHOUSE ELECTRIC CORP	Maryland	ARMY	RDTE/Missile and Space Systems-Advanced De	2,983
		Penn	USAF	RDTE/Missile and Space Systems-Advanced De	340
	CONTRACTOR TOTAL				3,323
	WILLIAMS INTERNATIONAL CORP	Michigan	USAF	RDTE/Missile and Space Systems-Advanced De	1,500
	XACTON CORPORATION	Arizona	ARMY	RDTE/Missile and Space Systems-Advanced De	68
			USAF	RDTE/Missile and Space Systems-Advanced De	300
	STATE TOTAL				368
	CONTRACTOR TOTAL				246
	XONTECH INC	Mass	USAF	RDTE/Missile and Space Systems-Advanced De	614
		California	ARMY	RDTE/Missile and Space Systems-Advanced De	1,158
			USAF	RDTE/Missile and Space Systems-Advanced De	3,046
	STATE TOTAL				4,204
	R&D TOTAL				1,211,678
	AC24 ACUREX CORPORATION	California	USAF	RDTE/Missile and Space Systems-Engr Develo	38
	ALABAMA A & M UNIVERSITY	Alabama	ARMY	RDTE/Missile and Space Systems-Engr Develo	46
	BDM INTERNATIONAL INC	Alabama	ARMY	RDTE/Missile and Space Systems-Engr Develo	161
	BELL HELICOPTER INTERNATIONAL	Texas	NAVY	RDTE/Missile and Space Systems-Engr Develo	210
	BOEING AEROSPACE & ELECTRONICS	California	USAF	RDTE/Missile and Space Systems-Engr Develo	2,842
		Washington	NAVY	RDTE/Missile and Space Systems-Engr Develo	2,057

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AC24 (CONTINUED)

		USAF	RDTE/Missile and Space Systems-Engr Develo	\$
STATE TOTAL				
CONTRACTOR TOTAL				
BOEING COMPANY THE	Alabama	ARMY	RDTE/Missile and Space Systems-Engr Develo	24,821
	Kansas	USAF	RDTE/Missile and Space Systems-Engr Develo	26,878
	Washington	USAF	RDTE/Missile and Space Systems-Engr Develo	29,720
				21,250
				1,580-
				82,580
				102,250
CONTRACTOR TOTAL				
BOLT BERANEK & NEWMAN INC	Mass	ARMY	RDTE/Missile and Space Systems-Engr Develo	165
CROSS SYSTEMS INC	Georgia	USAF	RDTE/Missile and Space Systems-Engr Develo	2,778
CTA INCORPORATED	California	USAF	RDTE/Missile and Space Systems-Engr Develo	972
DRAPER CHARLES STAR 8 INC	Mass	USAF	RDTE/Missile and Space Systems-Engr Develo	674-
DYNAMICS RESEARCH CORPORATION	Mass	USAF	RDTE/Missile and Space Systems-Engr Develo	26-
EARTH TECHNOLOGY CORP	California	USAF	RDTE/Missile and Space Systems-Engr Develo	92-
EG&G INC	California	ARMY	RDTE/Missile and Space Systems-Engr Develo	379-
EG&G WASHINGTON ANALYTICAL SVC	Maryland	NAVY	RDTE/Missile and Space Systems-Engr Develo	110
GENCORP INC	California	USAF	RDTE/Missile and Space Systems-Engr Develo	1,140
GENERAL DYNAMICS CORPORATION	California	NAVY	RDTE/Missile and Space Systems-Engr Develo	706-
	Texas	USAF	RDTE/Missile and Space Systems-Engr Develo	277
				429-
CONTRACTOR TOTAL				
GENERAL ELECTRIC COMPANY	Mass	NAVY	RDTE/Missile and Space Systems-Engr Develo	12,428
	Penn	USAF	RDTE/Missile and Space Systems-Engr Develo	3,099
				15,527
CONTRACTOR TOTAL				
GEODYNAMICS CORPORATION	California	USAF	RDTE/Missile and Space Systems-Engr Develo	2,237
GTE GOVERNMENT SYSTEMS CORP	California	USAF	RDTE/Missile and Space Systems-Engr Develo	1,956

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AC24 (CONTINUED)

	CONTRACTOR TOTAL				\$	580-
	HENNINGSON DURHAM RICHARDSON		USAF	RDTE/Missile and Space Systems-Engr Develo		1,376
	HERCULES INCORPORATED		USAF	RDTE/Missile and Space Systems-Engr Develo		257-
			NAVY	RDTE/Missile and Space Systems-Engr Develo		718
			USAF	RDTE/Missile and Space Systems-Engr Develo		59,499
	STATE TOTAL					60,217
	HONEYWELL INC		USAF	RDTE/Missile and Space Systems-Engr Develo		578-
			USAF	RDTE/Missile and Space Systems-Engr Develo		188
	CONTRACTOR TOTAL					390-
	HUGHES AIRCRAFT COMPANY		USAF	RDTE/Missile and Space Systems-Engr Develo		59
	INTERSTATE ELECTRONICS CORP		USAF	RDTE/Missile and Space Systems-Engr Develo		731
	KAMAN SCIENCES CORPORATION		NAVY	RDTE/Missile and Space Systems-Engr Develo		680
	KEYSTONE COMPUTER ASSOCIATES		NAVY	RDTE/Missile and Space Systems-Engr Develo		459
	LITTON SYSTEMS INC		USAF	RDTE/Missile and Space Systems-Engr Develo		7,780
			USAF	RDTE/Missile and Space Systems-Engr Develo		3,438
	CONTRACTOR TOTAL					11,218
	LOCKHEED MISSILES & SPACE CO		NAVY	RDTE/Missile and Space Systems-Engr Develo		161
			USAF	RDTE/Missile and Space Systems-Engr Develo		150
	STATE TOTAL					311
	LOGICON INC		USAF	RDTE/Missile and Space Systems-Engr Develo		11,881
	LORAL CORPORATION		NAVY	RDTE/Missile and Space Systems-Engr Develo		1,532
			USAF	RDTE/Missile and Space Systems-Engr Develo		106,185
			NAVY	RDTE/Missile and Space Systems-Engr Develo		33
			NAVY	RDTE/Missile and Space Systems-Engr Develo		1,550
	CONTRACTOR TOTAL					109,300

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AC24 (CONTINUED)					
	LTV AEROSPACE & DEFENSE CO	Texas	ARMY	RDTE/Missile and Space Systems-Engr Develo	31,565
	MAGNAVOX GOVT & INDUSTRL ELCTR	Indiana	NAVY	RDTE/Missile and Space Systems-Engr Develo	50
	MARTIN MARIETTA CORPORATION	Colorado	USAF	RDTE/Missile and Space Systems-Engr Develo	10,881
	MARTIN MARIETTA DIEHL THORN JV	Florida	ARMY	RDTE/Missile and Space Systems-Engr Develo	106,044
	MCDONNELL DOUGLAS CORPORATION	Missouri	NAVY	RDTE/Missile and Space Systems-Engr Develo	5,626
	METRATEK INC	California	NAVY	RDTE/Missile and Space Systems-Engr Develo	63
	MISSION RESEARCH CORPORATION	California	USAF	RDTE/Missile and Space Systems-Engr Develo	301
	MOTOROLA INC	Arizona	NAVY	RDTE/Missile and Space Systems-Engr Develo	2,004
	NORTHROP CORPORATION	California	ARMY	RDTE/Missile and Space Systems-Engr Develo	2,900
		USAF	RDTE/Missile and Space Systems-Engr Develo	433-	
	STATE TOTAL				2,467
	CONTRACTOR TOTAL				82-
	RAYTHEON COMPANY	Mass	USAF	RDTE/Missile and Space Systems-Engr Develo	2,385
		Mass	ARMY	RDTE/Missile and Space Systems-Engr Develo	25,297
		NAVY	RDTE/Missile and Space Systems-Engr Develo	66,245	
	STATE TOTAL				91,542
	CONTRACTOR TOTAL				31-
	ROCKWELL INTERNATIONAL CORP	N.H.	USAF	RDTE/Missile and Space Systems-Engr Develo	1,111
		Tennessee	NAVY	RDTE/Missile and Space Systems-Engr Develo	92,622
	CONTRACTOR TOTAL				82,932
	ROYAL NORWEGIAN NAVAL MATERIAL	Georgia	ARMY	RDTE/Missile and Space Systems-Engr Develo	350
	SCIENCE APPLICATIONS INTL CORP	NORWAY	NAVY	RDTE/Missile and Space Systems-Engr Develo	83,282
	SOFTTECH INC	Virginia	NAVY	RDTE/Missile and Space Systems-Engr Develo	81,534
	SYSTEMS & LOGISTICS CORP	Mass	USAF	RDTE/Missile and Space Systems-Engr Develo	849
		California	USAF	RDTE/Missile and Space Systems-Engr Develo	27-
					877

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	-R&D DESCRIPTION-	\$
AC24 (CONTINUED)					
	TECOLOTE RESEARCH INC	California	USAF	RDTE/Missile and Space Systems-Engr Develo	467
	TEKTRONIX INC	Oregon	NAVY	RDTE/Missile and Space Systems-Engr Develo	42
	TEXAS INSTRUMENTS INC	Colorado	USAF	RDTE/Missile and Space Systems-Engr Develo	522
		Texas	NAVY	RDTE/Missile and Space Systems-Engr Develo	2,400
	CONTRACTOR TOTAL				2,922
	THIOKOL CORPORATION	Utah	USAF	RDTE/Missile and Space Systems-Engr Develo	28,781
	TI & MARTIN AAWS-M JV	Texas	ARMY	RDTE/Missile and Space Systems-Engr Develo	66,631
	TITAN SYSTEMS INC	California	USAF	RDTE/Missile and Space Systems-Engr Develo	444
	TRW INC	California	USAF	RDTE/Missile and Space Systems-Engr Develo	168,015
	UNISYS CORPORATION	Virginia	NAVY	RDTE/Missile and Space Systems-Engr Develo	867
	UNISYS DEFENSE SYSTEMS INC	New York	NAVY	RDTE/Missile and Space Systems-Engr Develo	19,653
	UNITED INTERNATIONAL ENGRG	New Mexico	ARMY	RDTE/Missile and Space Systems-Engr Develo	1,108
	WESTINGHOUSE ELECTRIC CORP	California	NAVY USAF	RDTE/Missile and Space Systems-Engr Develo RDTE/Missile and Space Systems-Engr Develo	60,857 50,521
	STATE TOTAL				111,378
	WILLIAMS INTERNATIONAL CORP	Michigan	NAVY	RDTE/Missile and Space Systems-Engr Develo	98
	R&D TOTAL				1,167,801
AC25	AEROJET	California	USAF	RDTE/Missile and Space Systems-Op Systems	520
	AEROMET INC	Oklahoma	ARMY	RDTE/Missile and Space Systems-Op Systems	2,431
		Marshall I	ARMY	RDTE/Missile and Space Systems-Op Systems	2,536
	CONTRACTOR TOTAL				4,967
	BDM INTERNATIONAL INC	Virginia	ARMY	RDTE/Missile and Space Systems-Op Systems	1,389
	COLLINS INTERNATIONAL SVC CO	Iowa	USAF	RDTE/Missile and Space Systems-Op Systems	1,315
	COMMUNICATION MFG CO	California	USAF	RDTE/Missile and Space Systems-Op Systems	2,019

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## PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

FISCAL YEAR 1991

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AC25 (CONTINUED)					
	CONTEL CORPORATION	Colorado	USAF	RDTE/Missile and Space Systems-Op Systems	\$ 15,972
		Maryland	USAF	RDTE/Missile and Space Systems-Op Systems	19,711
	CONTRACTOR TOTAL				35,683
	ELECTRONIC WARFARE ASSOCIATES	Alabama	ARMY	RDTE/Missile and Space Systems-Op Systems	80-
	GENERAL DYNAMICS CORPORATION	California	NAVY	RDTE/Missile and Space Systems-Op Systems	79
	GENERAL ELECTRIC COMPANY	New Jersey	USAF	RDTE/Missile and Space Systems-Op Systems	130,273
		Penn	USAF	RDTE/Missile and Space Systems-Op Systems	737
	CONTRACTOR TOTAL				131,010
	HARRIS CORPORATION	Florida	USAF	RDTE/Missile and Space Systems-Op Systems	1,995
	HERCULES INCORPORATED	Utah	ARMY USAF	RDTE/Missile and Space Systems-Op Systems RDTE/Missile and Space Systems-Op Systems	86- 285
	STATE TOTAL				199
	HONEYWELL INC	Florida	NAVY USAF	RDTE/Missile and Space Systems-Op Systems RDTE/Missile and Space Systems-Op Systems	500 7,500
	STATE TOTAL				8,000
	HUGHES AIRCRAFT COMPANY	California	USAF	RDTE/Missile and Space Systems-Op Systems	2,305
	INFOTEC DEVELOPMENT INC	California	USAF	RDTE/Missile and Space Systems-Op Systems	1,379
	INTEGRAL SYSTEMS INC	Maryland	USAF	RDTE/Missile and Space Systems-Op Systems	1,729
	INTERNATIONAL BUS MCHS CORP	Virginia	USAF	RDTE/Missile and Space Systems-Op Systems	1,000
	ISYS SECURITY SYSTEMS INC	California	USAF	RDTE/Missile and Space Systems-Op Systems	650
	KAMAN SCIENCES CORPORATION	Colorado	ARMY NAVY USAF	RDTE/Missile and Space Systems-Op Systems RDTE/Missile and Space Systems-Op Systems RDTE/Missile and Space Systems-Op Systems	1,198 1,909 600
	STATE TOTAL				3,707
	KEARFOTT GDNCE NAVIGATION CORP	New Jersey	NAVY	RDTE/Missile and Space Systems-Op Systems	52,685
	LOCKHEED MISSILES & SPACE CO	California	NAVY	RDTE/Missile and Space Systems-Op Systems	1,057

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FISCAL YEAR 1991

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AC25 (CONTINUED)

MARTIN MARIETTA CORPORATION	Colorado	USAF	RDTE/Missile and Space Systems-Op Systems	\$	1,392,280
NICHOLS RESEARCH CORPORATION	Alabama	ARMY	RDTE/Missile and Space Systems-Op Systems		4,345
NORTHROP CORPORATION	California	USAF	RDTE/Missile and Space Systems-Op Systems		6,742
ORION INTL TECHNOLOGIES	New Mexico	USAF	RDTE/Missile and Space Systems-Op Systems		84
RAYTHEON COMPANY	Mass	ARMY	RDTE/Missile and Space Systems-Op Systems		9,062
ROCKWELL INTERNATIONAL CORP	New Mexico	ARMY	RDTE/Missile and Space Systems-Op Systems		404
ROCKWELL POWER SYSTEMS	New Mexico	ARMY	RDTE/Missile and Space Systems-Op Systems		421
SCIENCE APPLICATIONS INTL CORP	Virginia	ARMY	RDTE/Missile and Space Systems-Op Systems		2,465
STRAPDOWN ASSOCIATES INC	Minnesota	NAVY	RDTE/Missile and Space Systems-Op Systems		225
SYSTEMS PLANNING & ANALYSIS	Virginia	NAVY	RDTE/Missile and Space Systems-Op Systems		1,512
SYSTEMS RES APPLICATIONS CORP	California	USAF	RDTE/Missile and Space Systems-Op Systems		2,519
TRW INC	California	USAF	RDTE/Missile and Space Systems-Op Systems		1,656
UNISYS CORPORATION	Virginia	NAVY	RDTE/Missile and Space Systems-Op Systems		1,195
VREULS RESEARCH CORPORATION	California	ARMY	RDTE/Missile and Space Systems-Op Systems		141
	Virginia	ARMY	RDTE/Missile and Space Systems-Op Systems		2,553
CONTRACTOR TOTAL					2,694
R&D TOTAL					1,677,212
AC26 A T S S INC	California	USAF	RDTE/Missile and Space Systems-Mgmt & Supp		941
AEROVIRONMENT INC	California	NAVY	RDTE/Missile and Space Systems-Mgmt & Supp		429
AMERICAN COMPOSITE TECHNOLOGY	Mass	USAF	RDTE/Missile and Space Systems-Mgmt & Supp		192
ANALYTIC SCIENCE CORP THE	Mass	NAVY	RDTE/Missile and Space Systems-Mgmt & Supp		2,686
ARIAS RESEARCH ASSOCIATES	California	USAF	RDTE/Missile and Space Systems-Mgmt & Supp		273
ASTRON RESEARCH & ENGINEERING	California	USAF	RDTE/Missile and Space Systems-Mgmt & Supp		405
COMPUTATIONAL MECHANICS CORP	Tennessee	USAF	RDTE/Missile and Space Systems-Mgmt & Supp		65

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R-D DESCRIPTION	\$
AC26 (CONTINUED)					
	CREARE INC	N.H.	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	
	CSA ENGINEERING INC	California	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	200
	CTK ENTERPRISES	California	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	240
	EPSILON LAMBDA ELECTRONICS	Illinois	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	47
	FOSTER MILLER INC	Mass	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	150
	FRONTIER ENGINEERING INC	Oklahoma	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	512
	GENERAL APPLIED SCIENCE	New York	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	71
	GENERAL SCIENCES INC	Penn	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	59
	HITEC PRODUCTS INC	Mass	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	130
	HITTITE MICROWAVE CORPORATION	Mass	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	523
	HYBERSONICS CORP	California	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	209
	INTEGRATED SYSTEMS INC	California	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	321
	INTERACTIVE INTELLIGENT IMAGE	California	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	445
	KAMAN SCIENCES CORPORATION	Colorado	NAVY	RDTE/Missile and Space Systems-Mgmt & Supp	658
	MANTECH INTERNATIONAL CORP	Virginia	NAVY	RDTE/Missile and Space Systems-Mgmt & Supp	1,300
	MARTIN MARIETTA CORPORATION	Florida	NAVY	RDTE/Missile and Space Systems-Mgmt & Supp	15,000
	MATERIALS SCIENCES CORP	Penn	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	
	MIDWEST RESEARCH TECHNOLOGIES	Wisconsin	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	220
	PDA ENGINEERING	California	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	59
	SANCHEZ IGNACIO PAINGINT CONTR	California	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	92
	SCIENCE & APPL TECH	California	NAVY	RDTE/Missile and Space Systems-Mgmt & Supp	774
	SCIENCE APPLICATIONS INTL CORP	California	NAVY	RDTE/Missile and Space Systems-Mgmt & Supp	648
	CONTRACTOR TOTAL	Penn	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	109
					757

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AC26 (CONTINUED)					
	SPACE DATA CORPORATION	Arizona	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	\$ 228
	SPARTA INC	California	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	164
	SPECTRAL SCIENCES INC	Mass	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	424
	SYSTEMS RES APPLICATIONS CORP	Maryland	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	72
		Mass	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	441
		Virginia	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	2,879
	CONTRACTOR TOTAL				3,392
	TREADWELL CORPORATION	Conn	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	166
	VISTA RESEARCH	California	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	309
	XONTECH INC	California	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	52
R&D TOTAL					31,917
AC31	ADVANCED COMMUNICATIONS SYSTEMS	Virginia	NAVY	RDTE/Ships-Basic Research	50
	ADVANCED MATERIAL SYS INC	Louisiana	NAVY	RDTE/Ships-Basic Research	50
	AMHERST SYSTEMS INC	New York	NAVY	RDTE/Ships-Basic Research	50
	ARCCA INCORPORATED	Penn	NAVY	RDTE/Ships-Basic Research	47
	ARGOTEC INC	Florida	NAVY	RDTE/Ships-Basic Research	55
	BAND LAVIS & ASSOCIATES INC	Maryland	NAVY	RDTE/Ships-Basic Research	50
	BREWER SCIENCE INC	Missouri	NAVY	RDTE/Ships-Basic Research	50
	CAPE COD RESEARCH INC	Mass	NAVY	RDTE/Ships-Basic Research	110
	CIMSPEC INC	Michigan	NAVY	RDTE/Ships-Basic Research	26
	CLEVER FELLOWS INNOVATION INC	New York	NAVY	RDTE/Ships-Basic Research	41
	CODAR OCEAN SENSORS LTD	California	NAVY	RDTE/Ships-Basic Research	50
	COLUMBIA UNIVERSITY	New York	NAVY	RDTE/Ships-Basic Research	75
	COMPEER INC	California	NAVY	RDTE/Ships-Basic Research	52
	CONCEPTUAL SOFTWARE SYSTEMS	California	NAVY	RDTE/Ships-Basic Research	49

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R&D	CONTRACTOR NAME	ST/CONTRY	DEPT	R&D DESCRIPTION	
AC31 (CONTINUED)					
	DYMAFLOW INC	Maryland	NAVY	RDTE/Ships-Basic Research	50
	ENDECO INC	Mass	NAVY	RDTE/Ships-Basic Research	50
	ENERGY COMPRESSION RES CORP	California	NAVY	RDTE/Ships-Basic Research	50
	ENERGY RESEARCH CORPORATION	Conn	NAVY	RDTE/Ships-Basic Research	50
	ENGINEERING VISIONS INC	California	NAVY	RDTE/Ships-Basic Research	46
	ESSEX CORPORATION	Virginia	NAVY	RDTE/Ships-Basic Research	49
	FOSTER MILLER INC	Mass	NAVY	RDTE/Ships-Basic Research	56
	GENERAL ATOMICS	California	NAVY	RDTE/Ships-Basic Research	70
	GEO CENTERS INC	Mass	NAVY	RDTE/Ships-Basic Research	48
	GINER INC	Mass	NAVY	RDTE/Ships-Basic Research	55
	GUMBS ASSOCIATES INC	New Jersey	NAVY	RDTE/Ships-Basic Research	50
	HLA ENGINEERS INC	Texas	NAVY	RDTE/Ships-Basic Research	49
	HYDRODYNAMICS RESEARCH ASSOC	Virginia	NAVY	RDTE/Ships-Basic Research	49
	INTEGRATED SYSTEMS ANALYSTS	Virginia	NAVY	RDTE/Ships-Basic Research	321
	JOHNSTONE YACHTS INC	Conn	NAVY	RDTE/Ships-Basic Research	49
	L RAYMOND & ASSOCIATES	California	NAVY	RDTE/Ships-Basic Research	487
	LAQUE CTR FOR CRRSION TCHNOLOGY	N Carolina	NAVY	RDTE/Ships-Basic Research	421
	LYNNTECH INC	Texas	NAVY	RDTE/Ships-Basic Research	50
	MAINSTREAM ENGINEERING CO INC	Florida	NAVY	RDTE/Ships-Basic Research	50
	MARITIME DYNAMICS INC	Maryland	NAVY	RDTE/Ships-Basic Research	50
	MATERIAL & ELECTROCHEMICAL RES	Arizona	NAVY	RDTE/Ships-Basic Research	495
	MICRO SENSOR SYSTEMS INC	Virginia	NAVY	RDTE/Ships-Basic Research	490
	N K F ENGINEERING INC	Virginia	NAVY	RDTE/Ships-Basic Research	49
	NORTH STAR TECH INC	Maine	NAVY	RDTE/Ships-Basic Research	48

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/ONTRY	DEPT	--R&D DESCRIPTION--	\$
AC31 (CONTINUED)					
	OPHIR CORP	Colorado	NAVY	RDTE/Ships-Basic Research	50
	ORINCON CORPORATION	California	NAVY	RDTE/Ships-Basic Research	98
	PERFECT VIEW INC	N Carolina	NAVY	RDTE/Ships-Basic Research	615
	PHYSICAL OPTICS CORPORATION	California	NAVY	RDTE/Ships-Basic Research	102
	PLANNING SYSTEMS INCORPORATED	Virginia	NAVY	RDTE/Ships-Basic Research	49
	RADIATION MONITORING DEVICES	Mass	NAVY	RDTE/Ships-Basic Research	50
	SEAKAY MANAGEMENT CORPORATION	Conn	NAVY	RDTE/Ships-Basic Research	50
	SEAWORTHY SYSTEMS INC	Conn	NAVY	RDTE/Ships-Basic Research	83
	SOHAR INCORPORATED	California	NAVY	RDTE/Ships-Basic Research	50
	SONALYSTS INC	Conn	NAVY	RDTE/Ships-Basic Research	1,224
	SPECTRUM MANAGEMENT GROUP INC	Virginia	NAVY	RDTE/Ships-Basic Research	49
	SYMBIOTICS INC	Mass	NAVY	RDTE/Ships-Basic Research	50
	SYSTEM PLANNING CORPORATION	Virginia	NAVY	RDTE/Ships-Basic Research	52
	SYSTEMS CONTROL TECHNOLOGY	California	NAVY	RDTE/Ships-Basic Research	100
	SYSTEMS INTEGRATED	California	NAVY	RDTE/Ships-Basic Research	50
	TAU CORPORATION	California	NAVY	RDTE/Ships-Basic Research	50
	TE TECHNOLOGY	Michigan	NAVY	RDTE/Ships-Basic Research	89
	TETRA CORPORATIO'	New Mexico	NAVY	RDTE/Ships-Basic Research	55
	TREADWELL CORPORATION	New Jersey	NAVY	RDTE/Ships-Basic Research	51
	TRIANGLE RESEARCH & DEV CORP	N Carolina	NAVY	RDTE/Ships-Basic Research	50
	UNITED STATES DEPT OF COMMERCE	Mass	NAVY	RDTE/Ships-Basic Research	217
	US DOE	Oklahoma	NAVY	RDTE/Ships-Basic Research	1,263
	WADDAN SYSTEMS	California	NAVY	RDTE/Ships-Basic Research	50
	WESTINGHOUSE ELECTRIC CORP	Ohio	ARMY	RDTE/Ships-Basic Research	2,200

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
	R&D TOTAL				10,634
AC32	A A I CORPORATION	Maryland	NAVY	RDTE/Ships-Exploratory Development	444
	ADA TECHNOLOGIES	Colorado	NAVY	RDTE/Ships-Exploratory Development	50
	ADVANCED MARINE ENTERPRISES	Virginia	NAVY	RDTE/Ships-Exploratory Development	2,447
	ALCAN ALUMINUM CORP	Mass	NAVY	RDTE/Ships-Exploratory Development	55
	ALUMINUM COMPANY OF AMERICA	Penn	NAVY	RDTE/Ships-Exploratory Development	100
	ANALYTIC POWER CORP	Mass	NAVY	RDTE/Ships-Exploratory Development	233
	ARTECH CORP	Virginia	NAVY	RDTE/Ships-Exploratory Development	40
	ATLANTIC RESEARCH CORPORATION	Maryland	NAVY	RDTE/Ships-Exploratory Development	1,880
	BARNES GROUP INC	Michigan	NAVY	RDTE/Ships-Exploratory Development	216
	BOEING COMPANY THE	Washington	NAVY	RDTE/Ships-Exploratory Development	165
	CAPE COD RESEARCH INC	Mass	NAVY	RDTE/Ships-Exploratory Development	50
	CASDE CORPORATION	California	NAVY	RDTE/Ships-Exploratory Development	673
	CHICAGO BRIDGE & IRON COMPANY	Illinois	NAVY	RDTE/Ships-Exploratory Development	256
	CREARE INC	N.H.	NAVY	RDTE/Ships-Exploratory Development	170
	DATA DESIGN LABORATORIES	Virginia	NAVY	RDTE/Ships-Exploratory Development	50
	EG&G WASHINGTON ANALYTICAL SVC	Maryland	NAVY	RDTE/Ships-Exploratory Development	575
	EPOCH ENGINEERING INC	Maryland	NAVY	RDTE/Ships-Exploratory Development	43
	GENERAL DYNAMICS CORPORATION	Conn	NAVY	RDTE/Ships-Exploratory Development	79
	GENERAL ELECTRIC COMPANY	New York	NAVY	RDTE/Ships-Exploratory Development	92
	HYDRODYNAMICS RESEARCH ASSOC	Virginia	NAVY	RDTE/Ships-Exploratory Development	60
	I I T RESEARCH INSTITUTE	Tennessee	NAVY	RDTE/Ships-Exploratory Development	2,929
	JOHNS HOPKINS UNIVERSITY	Maryland	NAVY	RDTE/Ships-Exploratory Development	50
	KINETIC SYSTEMS INC	Washington	NAVY	RDTE/Ships-Exploratory Development	54
	MAGNAVOX GOVT & INDUSTRL ELCTR	Indiana	NAVY	RDTE/Ships-Exploratory Development	552

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AC32 (CONTINUED)					
	MAR INCORPORATED	Maryland	NAVY	RDTE/Ships-Exploratory Development	990
	MARTIN MARIETTA CORPORATION	California	NAVY	RDTE/Ships-Exploratory Development	117
	MCDONNELL DOUGLAS SPACE SYS CO	California	NAVY	RDTE/Ships-Exploratory Development	38
	MTS SYSTEMS CORPORATION	Minnesota	NAVY	RDTE/Ships-Exploratory Development	438
	NEWPORT NEWS SHPBLDING DRYDOCK	Virginia	NAVY	RDTE/Ships-Exploratory Development	243
	RAYTHEON COMPANY	Rhode Isld	NAVY	RDTE/Ships-Exploratory Development	146
	RESEARCH TRIANGLE INSTITUTE	N Carolina	NAVY	RDTE/Ships-Exploratory Development	198
	SATCON TECHNOLOGY CORPORATION	Mass	NAVY	RDTE/Ships-Exploratory Development	40
	SEAWARD INTERNATIONAL	Virginia	NAVY	RDTE/Ships-Exploratory Development	1,031
	SOCIETE GENERALE DES TAPIS SA	GERMANY	NAVY	RDTE/Ships-Exploratory Development	6,694
	SOLAR TURBINES INCORPORATED	California	NAVY	RDTE/Ships-Exploratory Development	246
	TAYLOR S R	Oklahoma	NAVY	RDTE/Ships-Exploratory Development	51
	TEXAS INSTRUMENTS INC	Texas	NAVY	RDTE/Ships-Exploratory Development	480
	THE UNIV OF WISCONSIN	Wisconsin	NAVY	RDTE/Ships-Exploratory Development	609
	THOMAS SCIFERS INC	California	NAVY	RDTE/Ships-Exploratory Development	90
	TRACOR INC	Maryland	NAVY	RDTE/Ships-Exploratory Development	34
	UNITED STATES DEPT OF COMMERCE	Tennessee	NAVY	RDTE/Ships-Exploratory Development	45
	UNIVERSITY OF MARYLAND	Maryland	NAVY	RDTE/Ships-Exploratory Development	37
	UNIVERSITY OF MIAMI INC	Florida	NAVY	RDTE/Ships-Exploratory Development	100
	UNIVERSITY OF TEXAS SYSTEM	Texas	NAVY	RDTE/Ships-Exploratory Development	33
	UNIVERSITY OF WASHINGTON	Washington	NAVY	RDTE/Ships-Exploratory Development	180
	VITRO CORPORATION	Maryland	NAVY	RDTE/Ships-Exploratory Development	72
	WESTINGHOUSE ELECTRIC CORP	Penn	NAVY	RDTE/Ships-Exploratory Development	1,430
	WYLE LABORATORIES	California	NAVY	RDTE/Ships-Exploratory Development	41

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	R&D TOTAL				
AC33	A A I CORPORATION	Maryland	NAVY	RDTE/Ships-Advanced Development	24,646
	ADVANCE SYSTEMS TECHNOLOGY	Georgia	NAVY	RDTE/Ships-Advanced Development	3,207
		Virginia	NAVY	RDTE/Ships-Advanced Development	217
	CONTRACTOR TOTAL				202
					419
	ADVANCED SYSTEMS TECHNOLOGY	Georgia	NAVY	RDTE/Ships-Advanced Development	2,633
	APPLIED HYDRO ACOUSTICS RES	Maryland	NAVY	RDTE/Ships-Advanced Development	243
	ARGOTEC INC	Florida	NAVY	RDTE/Ships-Advanced Development	33
	ATLANTIC RESEARCH CORPORATION	Maryland	NAVY	RDTE/Ships-Advanced Development	28
	DIGITAL EQUIPMENT CORPORATION	Virginia	NAVY	RDTE/Ships-Advanced Development	39-
	DYNAMICS TECHNOLOGY	California	NAVY	RDTE/Ships-Advanced Development	170
	EG&G SPECIAL PROJECTS	Nevada	NAVY	RDTE/Ships-Advanced Development	955
	EPOCH ENGINEERING INC	Maryland	NAVY	RDTE/Ships-Advanced Development	915
	GENERAL DYNAMICS CORPORATION	Conn	NAVY	RDTE/Ships-Advanced Development	32,051
	GENERAL ELECTRIC COMPANY	Mass	NAVY	RDTE/Ships-Advanced Development	35,913
		New York	NAVY	RDTE/Ships-Advanced Development	139,454
	CONTRACTOR TOTAL				175,367
	HALE FIRE PUMP CO	Penn	NAVY	RDTE/Ships-Advanced Development	1,314
	ILLBRUCK INC	Mass	NAVY	RDTE/Ships-Advanced Development	36
	MANTECH INTERNATIONAL CORP	New Mexico	NAVY	RDTE/Ships-Advanced Development	143
		Virginia	NAVY	RDTE/Ships-Advanced Development	64
	CONTRACTOR TOTAL				207
	MANVILLE SALES CORPORATION	Colorado	NAVY	RDTE/Ships-Advanced Development	62
	MAR INCORPORATED	Maryland	NAVY	RDTE/Ships-Advanced Development	153
	MINIGRAPH INC	Penn	NAVY	RDTE/Ships-Advanced Development	1,173

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AC33 (CONTINUED)					
	N K F ENGINEERING INC	Virginia	NAVY	RDTE/Ships-Advanced Development	743
	NATIVE AMERICAN CONSULTANTS	D.C.	NAVY	RDTE/Ships-Advanced Development	620
	NEWPORT NEWS SHPBLDING DRYDOCK	Virginia	NAVY	RDTE/Ships-Advanced Development	620
	NOISE CANCELLATION TECHNOLOGIE	Maryland	NAVY	RDTE/Ships-Advanced Development	50
	NORTHWEST RESEARCH ASSOCIATES	Washington	NAVY	RDTE/Ships-Advanced Development	556
	RESSLER ASSOCIATES INC	N.H.	NAVY	RDTE/Ships-Advanced Development	46
	RMCI	Virginia	NAVY	RDTE/Ships-Advanced Development	2,493
	SEEMAN COMPOSITES INC	Miss	NAVY	RDTE/Ships-Advanced Development	176
	SOMAT CORPORATION	Penn	NAVY	RDTE/Ships-Advanced Development	230
	STRUCTURAL COMPOSITES INC	Florida	NAVY	RDTE/Ships-Advanced Development	500
	SYSTEM PLANNING CORPORATION	California	NAVY	RDTE/Ships-Advanced Development	89
	TECHMATICS INC	Virginia	NAVY	RDTE/Ships-Advanced Development	100
	TRACOR APPLIED SCIENCES INC	Texas	NAVY	RDTE/Ships-Advanced Development	200
	UNISYS DEFENSE SYSTEMS INC	New York	NAVY	RDTE/Ships-Advanced Development	7,224
	UNIVERSITY OF DAYTON INC	Ohio	NAVY	RDTE/Ships-Advanced Development	55
	UNIVERSITY OF WISCONSIN SYSTEM	Wisconsin	NAVY	RDTE/Ships-Advanced Development	750
	VECTOR RESEARCH COMPANY INC	Maryland	NAVY	RDTE/Ships-Advanced Development	4,174
	WESTINGHOUSE ELECTRIC CORP	Penn	NAVY	RDTE/Ships-Advanced Development	276,681
	WYLE LABORATORIES	Virginia	NAVY	RDTE/Ships-Advanced Development	35
R&D TOTAL					514,269
AC34	APPLIED HYDRO ACOUSTICS RES	Maryland	NAVY	RDTE/Ships-Engineering Development	120
	ATLANTIC RESEARCH CORPORATION	Maryland	NAVY	RDTE/Ships-Engineering Development	50
	DATA DESIGN LABORATORIES	Virginia	NAVY	RDTE/Ships-Engineering Development	4,019
	G E C MARCONI MATERIAL	California	NAVY	RDTE/Ships-Engineering Development	91

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AC34 (CONTINUED)

GENERAL DYNAMICS CORPORATION	California	NAVY	RDTE/Ships-Engineering Development	\$	243
HAZELTINE CORPORATION	Conn	NAVY	RDTE/Ships-Engineering Development		19,725
HUGHES AIRCRAFT COMPANY	Mass	NAVY	RDTE/Ships-Engineering Development		19,968
INTERMARINES SPA	ITALY	NAVY	RDTE/Ships-Engineering Development		1,645
LIBRASCOPE CORP	California	NAVY	RDTE/Ships-Engineering Development		2,089
LUNDY ELECTRONICS & SYSTEMS	Florida	NAVY	RDTE/Ships-Engineering Development		2,250
MARINETTE MARINE CORP	Wisconsin	NAVY	RDTE/Ships-Engineering Development		800
MARTIN MARIETTA CORPORATION	Maryland	NAVY	RDTE/Ships-Engineering Development		168
MATERIALS SCIENCES CORP	Penn	NAVY	RDTE/Ships-Engineering Development		70-
MINNESOTA MINING & MFG CO	Minnesota	NAVY	RDTE/Ships-Engineering Development		134
N K F ENGINEERING INC	Virginia	NAVY	RDTE/Ships-Engineering Development		50
NEWPORT NEWS SHPBLDNG DRYDOCK	Virginia	NAVY	RDTE/Ships-Engineering Development		400
PACER SYSTEMS INC	Penn	NAVY	RDTE/Ships-Engineering Development		54
ROCKWELL INTERNATIONAL CORP	California	NAVY	RDTE/Ships-Engineering Development		16,047
T CARROLL ASSOCIATES INC	Maryland	NAVY	RDTE/Ships-Engineering Development		28
THE UNIVERSITY OF MICHIGAN	Michigan	NAVY	RDTE/Ships-Engineering Development		880
TODD PACIFIC SHIPYARDS CORP	California	NAVY	RDTE/Ships-Engineering Development		135
UNISYS CORPORATION	Virginia	NAVY	RDTE/Ships-Engineering Development		100
WYLE LABORATORIES	Virginia	NAVY	RDTE/Ships-Engineering Development		33-
R&D TOTAL					1,070
AC35 ELECTROMAGNETIC LAUNCH RESRCH	Mass	NAVY	RDTE/Ships-Op Systems Development		2,358
GENERAL DYNAMICS CORPORATION	Conn	NAVY	RDTE/Ships-Op Systems Development		52,353
					4,467
					1,500

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## AC35 (CONTINUED)

GEO CENTERS INC	Mass	NAVY	RDTE/Ships-Op	Systems Development	\$ 400
N K F ENGINEERING INC	Virginia	NAVY	RDTE/Ships-Op	Systems Development	77
TAMPA SHIPYARDS INC	Florida	NAVY	RDTE/Ships-Op	Systems Development	177
VECTOR RESEARCH COMPANY INC	Maryland	NAVY	RDTE/Ships-Op	Systems Development	63
R&D TOTAL					6,684

## AC36 ATACS CORPORATION

Virginia	NAVY	RDTE/Ships-Management & Support	40
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## CBI NA CON INC

Tennessee	NAVY	RDTE/Ships-Management & Support	6,957
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## PETERSON BUILDERS INC

Wisconsin	NAVY	RDTE/Ships-Management & Support	1,419
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## R&amp;D TOTAL

8,416

## AC41 FMC CORPORATION

California	ARMY	RDTE/Tank - Automotive-Basic Research	175
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## GENERAL MOTORS CORPORATION

Michigan	ARMY	RDTE/Tank - Automotive-Basic Research	264
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## GONZALEZ DESIGN ENGRG COMPANY

Michigan	ARMY	RDTE/Tank - Automotive-Basic Research	670
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## GORHAM ADVANCED MATERIALS INST

Maine	ARMY	RDTE/Tank - Automotive-Basic Research	50
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## OPTIMETRICS INC

Michigan	ARMY	RDTE/Tank - Automotive-Basic Research	41
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## PRINCETON SCIENTIFIC INSTRS

New Jersey	ARMY	RDTE/Tank - Automotive-Basic Research	60
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## TELEDYNE INDUSTRIES INC

Michigan	ARMY	RDTE/Tank - Automotive-Basic Research	32
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## UNION CORPORATION

Penn	ARMY	RDTE/Tank - Automotive-Basic Research	1,170
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## R&amp;D TOTAL

2,462

## AC42 ADVANCED DECISION SYSTEMS

California	ARMY	RDTE/Tank - Automotive-Exploratory Develop	117
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## ARMORED VHCLT TCHNOLOGIES ASSO

Michigan	ARMY	RDTE/Tank - Automotive-Exploratory Develop	25,786
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## ATLANTIC AEROSPACE ELECTRONICS

Maryland	ARMY	RDTE/Tank - Automotive-Exploratory Develop	59
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## AVCO CORPORATION

Conn	ARMY	RDTE/Tank - Automotive-Exploratory Develop	77-
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## BKM INC

California	ARMY	RDTE/Tank - Automotive-Exploratory Develop	255
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## CANADIAN COMMERCIAL CORP

CANADA	ARMY	RDTE/Tank - Automotive-Exploratory Develop	51
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AC42 (CONTINUED)

CAPE COD RESEARCH INC	Mass	ARMY	RDTE/Tank -	Automotive-Exploratory Develop	\$ 56
CARBORIDE CORPORATION	Ohio	ARMY	RDTE/Tank -	Automotive-Exploratory Develop	69-
CARNEGIE MELLON UNIVERSITY	Penn	ARMY	RDTE/Tank -	Automotive-Exploratory Develop	370
COLSA INC	Alabama	ARMY	RDTE/Tank -	Automotive-Exploratory Develop	152
CREARE INC	N.H.	ARMY	RDTE/Tank -	Automotive-Exploratory Develop	50
CUMMINS ENGINE COMPANY INC	Indiana	ARMY	RDTE/Tank -	Automotive-Exploratory Develop	3,396
DELTA INFORMATION SYSTEMS	Penn	ARMY	RDTE/Tank -	Automotive-Exploratory Develop	318
DYNETICS INC	Alabama	ARMY	RDTE/Tank -	Automotive-Exploratory Develop	245
FLAM & RUSSELL INC	Penn	ARMY	RDTE/Tank -	Automotive-Exploratory Develop	61
FMC CORPORATION	California	NAVY	RDTE/Tank -	Automotive-Exploratory Develop	2,464
GENERAL DYNAMICS CORPORATION	Michigan	ARMY	RDTE/Tank -	Automotive-Exploratory Develop	2,386
		NAVY	RDTE/Tank -	Automotive-Exploratory Develop	3,702
			STATE TOTAL		6,088
GENERAL MOTORS CORPORATION	Indiana	ARMY	RDTE/Tank -	Automotive-Exploratory Develop	75
	Michigan	ARMY	RDTE/Tank -	Automotive-Exploratory Develop	37-
			CONTRACTOR TOTAL		38
GENERAL TECHNOLOGY APPLICATIONS	Virginia	ARMY	RDTE/Tank -	Automotive-Exploratory Develop	90
HARSCO CORPORATION	Michigan	ARMY	RDTE/Tank -	Automotive-Exploratory Develop	12,531
HUGHES AIRCRAFT COMPANY	California	ARMY	RDTE/Tank -	Automotive-Exploratory Develop	1,072
INGENIEURBURO DEISENROTH	GERMANY	ARMY	RDTE/Tank -	Automotive-Exploratory Develop	5,000
J J M SYSTEMS INC	Penn	NAVY	RDTE/Tank -	Automotive-Exploratory Develop	455
JACKSONS INDUSTRIAL MFG INC	Michigan	ARMY	RDTE/Tank -	Automotive-Exploratory Develop	413
JOHN DEERE COMPANY	New Jersey	NAVY	RDTE/Tank -	Automotive-Exploratory Develop	9,764
K V H INDUSTRIES INC	Rhode Isld	ARMY	RDTE/Tank -	Automotive-Exploratory Develop	1,990

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AC42 (CONTINUED)					
	KAMAN INSTRUMENTATION CORP	Colorado	ARMY	RDTE/Tank - Automotive-Exploratory Develop	1,060
	KOLLMORGEN CORPORATION	Mass	ARMY	RDTE/Tank - Automotive-Exploratory Develop	142
	MAINSTREAM ENGINEERING CO INC	Florida	ARMY	RDTE/Tank - Automotive-Exploratory Develop	50
	MAXWELL LABORATORIES INC	Virginia	ARMY	RDTE/Tank - Automotive-Exploratory Develop	645
	MCDONNELL DOUGLAS CORPORATION	Missouri	ARMY	RDTE/Tank - Automotive-Exploratory Develop	879
	MECHANICAL TECHNOLOGY INC	New York	ARMY	RDTE/Tank - Automotive-Exploratory Develop	938
	MICHIGAN TECHNICAL UNIVERSITY	Michigan	ARMY	RDTE/Tank - Automotive-Exploratory Develop	938
	ODETICS INC	California	ARMY	RDTE/Tank - Automotive-Exploratory Develop	40
	OPTIMETRICS INC	Michigan	ARMY	RDTE/Tank - Automotive-Exploratory Develop	99
	PHOTONICS CORPORATION	New York	ARMY	RDTE/Tank - Automotive-Exploratory Develop	99
	PHYSICAL OPTICS CORPORATION	California	ARMY	RDTE/Tank - Automotive-Exploratory Develop	312
	PIONEER TECHNOLOGY INC	Michigan	ARMY	RDTE/Tank - Automotive-Exploratory Develop	51
	POWDERED MATERIALS APPLICATION	California	ARMY	RDTE/Tank - Automotive-Exploratory Develop	49
	PRECISION COMBUSTION INC	Conn	ARMY	RDTE/Tank - Automotive-Exploratory Develop	265
	R. C. ASSOCIATES	Mass	ARMY	RDTE/Tank - Automotive-Exploratory Develop	92
	S TRON	California	ARMY	RDTE/Tank - Automotive-Exploratory Develop	52
	SECOND DIFFERENCE INC	Michigan	ARMY	RDTE/Tank - Automotive-Exploratory Develop	50
	SILICON FILMS CORP	California	ARMY	RDTE/Tank - Automotive-Exploratory Develop	243
	SOUTHWEST RESEARCH INSTITUTE	Texas	NAVY	RDTE/Tank - Automotive-Exploratory Develop	292
	SPECTRUM 39 LTD	Maryland	ARMY	RDTE/Tank - Automotive-Exploratory Develop	52
	SURVIVE ENGINEERING CO INC	Maryland	ARMY	RDTE/Tank - Automotive-Exploratory Develop	50
	SYNERNET CORP	California	ARMY	RDTE/Tank - Automotive-Exploratory Develop	105
	TECHNOLOGY INTERNATIONAL INC	Louisiana	ARMY	RDTE/Tank - Automotive-Exploratory Develop	169
	TINDEV INC	Mass	ARMY	RDTE/Tank - Automotive-Exploratory Develop	49

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AC42 (CONTINUED)					
	TRANSITIONS RESEARCH CORP	Conn	ARMY	RDTE/Tank - Automotive-Exploratory Develop	235
	TRIANGLE RESEARCH & DEV CORP	N Carolina	ARMY	RDTE/Tank - Automotive-Exploratory Develop	276
	TRW INC	California	ARMY	RDTE/Tank - Automotive-Exploratory Develop	660
	UNIVERSITY OF DELAWARE	Delaware	ARMY	RDTE/Tank - Automotive-Exploratory Develop	179
	R&D TOTAL				78,746
AC43	A A I CORPORATION	Maryland	ARMY	RDTE/Tank - Automotive-Advanced Developmen	760
	AM GENERAL CORPORATION	Michigan	ARMY	RDTE/Tank - Automotive-Advanced Developmen	508
	ANALYTIC SCIENCE CORP THE	Mass	ARMY	RDTE/Tank - Automotive-Advanced Developmen	625
	ARMORED VHCLE TCHNLOGIES ASSO	Michigan	ARMY	RDTE/Tank - Automotive-Advanced Developmen	12,987
	CADILLAC GAGE TEXTRON INC	Michigan	ARMY	RDTE/Tank - Automotive-Advanced Developmen	14,715
	CANADIAN COMMERCIAL CORP	CANADA	ARMY	RDTE/Tank - Automotive-Advanced Developmen	1,272
	COLEBRAND LIMITED	EGYPT	ARMY	RDTE/Tank - Automotive-Advanced Developmen	84
	CONTRAVES USA INC	Penn	ARMY	RDTE/Tank - Automotive-Advanced Developmen	32
	DOW CHEMICAL COMPANY THE	Michigan	ARMY	RDTE/Tank - Automotive-Advanced Developmen	100
	FMC CORPORATION	Alabama	ARMY	RDTE/Tank - Automotive-Advanced Developmen	126
	CONTRACTOR TOTAL	California	ARMY	RDTE/Tank - Automotive-Advanced Developmen	4,351
					4,477
	G & F COMPANY	California	ARMY	RDTE/Tank - Automotive-Advanced Developmen	2,465
	GENERAL MOTORS CORPORATION	Indiana	ARMY	RDTE/Tank - Automotive-Advanced Developmen	173
		Michigan	ARMY	RDTE/Tank - Automotive-Advanced Developmen	568
	CONTRACTOR TOTAL				741
	KAMAN INSTRUMENTATION CORP	Colorado	ARMY	RDTE/Tank - Automotive-Advanced Developmen	51
	LTV AEROSPACE & DEFENSE CO	Texas	ARMY	RDTE/Tank - Automotive-Advanced Developmen	1,135
	MICHIGAN TCHNLGCL UNIVERSITY	Michigan	ARMY	RDTE/Tank - Automotive-Advanced Developmen	924

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AC43 (CONTINUED)					
	MTS SYSTEMS CORPORATION	Minnesota	ARMY	RDTE/Tank - Automotive-Advanced Development	199
	OSHKOSH TRUCK CORPORATION	Wisconsin	ARMY	RDTE/Tank - Automotive-Advanced Development	130,559
	TELEDYNE INDUSTRIES INC	Michigan	ARMY	RDTE/Tank - Automotive-Advanced Development	789
	VICKERS DEFENSE SYSTEMS	UNITED KIN	ARMY	RDTE/Tank - Automotive-Advanced Development	797
	R&D TOTAL				173,220
AC44	AM GENERAL CORPORATION	Michigan	ARMY	RDTE/Tank - Automotive-Engr Development	3,767
	ARMORED VHCL THNLOGIES ASSO	Michigan	ARMY	RDTE/Tank - Automotive-Engr Development	14,409
	CASDE CORPORATION	California	NAVY	RDTE/Tank - Automotive-Engr Development	906
	CHAMBERLAIN MANUFACTURING CORP	Maryland	ARMY	RDTE/Tank - Automotive-Engr Development	151-
	FMC CORPORATION	Alabama	ARMY	RDTE/Tank - Automotive-Engr Development	4,660
	CONTRACTOR TOTAL	California	ARMY	RDTE/Tank - Automotive-Engr Development	31,856
	GENERAL DYNAMICS CORPORATION	Georgia	ARMY	RDTE/Tank - Automotive-Engr Development	36,516
	CONTRACTOR TOTAL	Michigan	ARMY	RDTE/Tank - Automotive-Engr Development	23,618
	GENERAL ELECTRIC COMPANY	Vermont	ARMY	RDTE/Tank - Automotive-Engr Development	34,151
	MECHANICAL TECHNOLOGY INC	New York	ARMY	RDTE/Tank - Automotive-Engr Development	57,769
	NORTHERN INDUSTRIAL SERVICES	New York	ARMY	RDTE/Tank - Automotive-Engr Development	2,724
	TELEDYNE INDUSTRIES INC	Michigan	ARMY	RDTE/Tank - Automotive-Engr Development	697
	VSE CORPORATION	Virginia	ARMY	RDTE/Tank - Automotive-Engr Development	386
	R&D TOTAL				54,844
AC45	AM GENERAL CORPORATION	Michigan	ARMY	RDTE/Tank - Automotive-Op Systems Developm	1,651
	FOSTER MILLER INC	Mass	ARMY	RDTE/Tank - Automotive-Op Systems Developm	173,518
	GENERAL DYNAMICS CORPORATION	Michigan	ARMY	RDTE/Tank - Automotive-Op Systems Developm	4,593
					47
					146

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AC45 (CONTINUED)					
	HARSCO CORPORATION	Michigan	ARMY	RDTE/Tank - Automotive-Op Systems Developm	10,945
	K C ELECTRONICS CORP	Kentucky	ARMY	RDTE/Tank - Automotive-Op Systems Developm	197
	MARTIN MARIETTA WESTNGHSE JV	Florida	ARMY	RDTE/Tank - Automotive-Op Systems Developm	3,883-
	SYSTEM PLANNING CORPORATION	Virginia	ARMY	RDTE/Tank - Automotive-Op Systems Developm	332
	UNIVERSITY OF MASSACHUSETTS	Mass	ARMY	RDTE/Tank - Automotive-Op Systems Developm	450
	VSE CORPORATION	Virginia	ARMY	RDTE/Tank - Automotive-Op Systems Developm	1,053
	WAYNE STATE UNIVERSITY	Michigan	ARMY	RDTE/Tank - Automotive-Op Systems Developm	74
	R&D TOTAL				13,954
AC46					
	FERRULMATIC INC	New Jersey	ARMY	RDTE/Tank - Automotive-Management & Suppor	205
	GENERAL DYNAMICS CORPORATION	Michigan	ARMY	RDTE/Tank - Automotive-Management & Suppor	2,314
	MERCER UNIVERSITY	Georgia	USAF	RDTE/Tank - Automotive-Management & Suppor	150
	TRW INC	California	ARMY	RDTE/Tank - Automotive-Management & Suppor	6,478
	R&D TOTAL				9,147
AC51					
	A A I CORPORATION	Maryland	USAF	RDTE/Weapons-Basic Research	296
	AMERICAN TELEPHONE & TELG CO	Penn	USAF	RDTE/Weapons-Basic Research	199
	BRUNSWICK CORPORATION	California	ARMY	RDTE/Weapons-Basic Research	94
	ELECTROMAGNETIC LAUNCH RESRCH	Mass	NAVY	RDTE/Weapons-Basic Research	95
	ENDOCHRONICS	Washington	USAF	RDTE/Weapons-Basic Research	45
	GENERAL ELECTRIC COMPANY	Florida	NAVY	RDTE/Weapons-Basic Research	50
	GMA INDUSTRIES INC	New Jersey	ARMY	RDTE/Weapons-Basic Research	50
	HONEYWELL INC	Minnesota	USAF	RDTE/Weapons-Basic Research	708-
	L B & M ASSOCIATES INC	Oklahoma	ARMY	RDTE/Weapons-Basic Research	50
	LORAL CORPORATION	Ohio	USAF	RDTE/Weapons-Basic Research	377
	MACH I INC	Penn	USAF	RDTE/Weapons-Basic Research	50

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AC51 (CONTINUED)					
	MARTIN MARIETTA CORPORATION	Florida	USAF	RDTE/Weapons-Basic Research	292
	MARTINGALE RESEARCH CORP	Texas	ARMY	RDTE/Weapons-Basic Research	50
	MASSACHUSETTS INST OF TECHNOLOGY	Mass	USAF	RDTE/Weapons-Basic Research	44
	MAXWELL LABORATORIES INC	California	USAF	RDTE/Weapons-Basic Research	216
	METRON INC	Penn	NAVY	RDTE/Weapons-Basic Research	28
	NICHOLS RESEARCH CORPORATION	Alabama	USAF	RDTE/Weapons-Basic Research	394
	ODETICS INC	California	ARMY	RDTE/Weapons-Basic Research	668
	OPTICS ONE INC	California	ARMY USAF	RDTE/Weapons-Basic Research RDTE/Weapons-Basic Research	50 177
			STATE TOTAL		227
	PACIFIC SIERRA RESEARCH CORP	California	NAVY	RDTE/Weapons-Basic Research	119
	POINT INDUSTRIES CORP	New York	ARMY	RDTE/Weapons-Basic Research	67
	PRC INC	New Mexico	USAF	RDTE/Weapons-Basic Research	132
	PRESEARCH INCORPORATED	Virginia	NAVY	RDTE/Weapons-Basic Research	549
	R & D ASSOCIATES	New Mexico	USAF	RDTE/Weapons-Basic Research	220
	REMINGTON ARMS CO INC	New York	ARMY	RDTE/Weapons-Basic Research	3,701
	ROCKWELL INTERNATIONAL CORP	California	USAF	RDTE/Weapons-Basic Research	300
		Georgia	ARMY	RDTE/Weapons-Basic Research	578
			CONTRACTOR TOTAL		878
	ROCKWELL POWER SYSTEMS	New Mexico	USAF	RDTE/Weapons-Basic Research	337
	S SYSTEMS CORPORATION	New Mexico	USAF	RDTE/Weapons-Basic Research	163
	SYNDETIX INC	New Mexico	USAF	RDTE/Weapons-Basic Research	265
	TANNER RESEARCH INC	California	NAVY	RDTE/Weapons-Basic Research	52
	TECHNICAL SOLUTIONS INC	New Mexico	ARMY	RDTE/Weapons-Basic Research	480

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AC51 (CONTINUED)					
	UNIVERSITY OF VIRGINIA	Texas	ARMY	RDTE/Weapons-Basic Research	2,236
	WYMAN GORDON COMPANY	California	NAVY	RDTE/Weapons-Basic Research	504
	R&D TOTAL				12,220
	AC52 A A I CORPORATION	Maryland	USAF	RDTE/Weapons-Exploratory Development	492
	ALLIANT TECHSYSTEMS INC	Minnesota	ARMY	RDTE/Weapons-Exploratory Development	500
			USAF	RDTE/Weapons-Exploratory Development	625
	STATE TOTAL				1,125
	APPLIED RESEARCH ASSOC INC	New Mexico	USAF	RDTE/Weapons-Exploratory Development	259
	APPLIED TECHNOLOGY ASSOCIATES	New Mexico	USAF	RDTE/Weapons-Exploratory Development	374
	AVCO CORPORATION	Mass	ARMY	RDTE/Weapons-Exploratory Development	300
	BATTELLE MEMORIAL INSTITUTE	Ohio	ARMY	RDTE/Weapons-Exploratory Development	347
	BOEING COMPUTER SUPPORT SVCS	Washington	USAF	RDTE/Weapons-Exploratory Development	144
	CALIFORNIA MUNITIONS DEVELOPMT	California	ARMY	RDTE/Weapons-Exploratory Development	101
	COLTS MANUFACTURING COMPANY	Conn	ARMY	RDTE/Weapons-Exploratory Development	57
	CONCORD ASSOCIATES INC	Virginia	ARMY	RDTE/Weapons-Exploratory Development	47
	DEFENSE DIAMOND DEV CO J/V	Mass	NAVY	RDTE/Weapons-Exploratory Development	30
	ELECTROMAGNETIC LAUNCH RESRCH	Mass	ARMY	RDTE/Weapons-Exploratory Development	237
	EPSILON LAMBDA ELECTRONICS	Illinois	USAF	RDTE/Weapons-Exploratory Development	60
	FIORE INDUSTRIES INCORPORATED	New Mexico	USAF	RDTE/Weapons-Exploratory Development	76
	FMC CORPORATION	Minnesota	NAVY	RDTE/Weapons-Exploratory Development	217
	FRIED D L ASSOCIATES INC	California	USAF	RDTE/Weapons-Exploratory Development	1,297
	GENERAL ATOMICS	New Mexico	USAF	RDTE/Weapons-Exploratory Development	1,436
	GENERAL ELECTRIC COMPANY	Vermont	USAF	RDTE/Weapons-Exploratory Development	1,450
	HI SHEAR CORPORATION	Nevada	NAVY	RDTE/Weapons-Exploratory Development	49

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AC52 (CONTINUED)					
	HONEYWELL INC	Minnesota	USAF	RDTE/Weapons-Exploratory Development	660
	I A P RESEARCH INC	Ohio	USAF	RDTE/Weapons-Exploratory Development	55
	INTEGRATED SENSORS INC	New York	USAF	RDTE/Weapons-Exploratory Development	50
	JAYCOR	California	USAF	RDTE/Weapons-Exploratory Development	25-
	KAMAN AEROSPACE CORPORATION	Conn	ARMY	RDTE/Weapons-Exploratory Development	31-
	KAMAN SCIENCES CORPORATION	New Mexico	USAF	RDTE/Weapons-Exploratory Development	105
	LANDEC LABS INC	California	USAF	RDTE/Weapons-Exploratory Development	245
	LITTON SYSTEMS INC	Mass	USAF	RDTE/Weapons-Exploratory Development	45
	LORAL CORPORATION	Arizona	USAF	RDTE/Weapons-Exploratory Development	4,669
		California	NAVY	RDTE/Weapons-Exploratory Development	4,380
	CONTRACTOR TOTAL				9,049
	LTV AEROSPACE & DEFENSE CO	Texas	ARMY	RDTE/Weapons-Exploratory Development	27-
	MARTIN MARIETTA CORPORATION	Florida	ARMY	RDTE/Weapons-Exploratory Development	200
			NAVY	RDTE/Weapons-Exploratory Development	200
			USAF	RDTE/Weapons-Exploratory Development	49
	STATE TOTAL				449
	MAXWELL LABORATORIES INC	California	USAF	RDTE/Weapons-Exploratory Development	1,143
	MCDONNELL DOUGLAS CORPORATION	Missouri	USAF	RDTE/Weapons-Exploratory Development	1,000
	MCDONNELL DOUGLAS HELICOPTER	Arizona	ARMY	RDTE/Weapons-Exploratory Development	1,551
	MINNESOTA MINING & MFG CO	Mass	NAVY	RDTE/Weapons-Exploratory Development	206
	MISSION RESEARCH CORPORATION	California	USAF	RDTE/Weapons-Exploratory Development	60
		New Mexico	ARMY	RDTE/Weapons-Exploratory Development	130
	CONTRACTOR TOTAL				190
	MOTOROLA INC	Arizona	USAF	RDTE/Weapons-Exploratory Development	3,241
	NAVSYS CORP	Colorado	NAVY	RDTE/Weapons-Exploratory Development	50

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AC52 (CONTINUED)

NEW MEXICO INST OF MIN TECHNLGY	New Mexico	ARMY NAVY	RDTE/Weapons-Exploratory Development RDTE/Weapons-Exploratory Development	\$	55 1,126
NEW MEXICO STATE OF	New Mexico	USAF	RDTE/Weapons-Exploratory Development		1,181
ODETICS INC	California	ARMY	RDTE/Weapons-Exploratory Development		1,568
ORION INTL TECHNOLOGIES	New Mexico	USAF	RDTE/Weapons-Exploratory Development		105
ORLANDO TECHNOLOGY INC	Florida	NAVY	RDTE/Weapons-Exploratory Development		35
PHYSICS INTERNATIONAL COMPANY	California	NAVY	RDTE/Weapons-Exploratory Development		376
PLASMATRONICS INC	New Mexico	USAF	RDTE/Weapons-Exploratory Development		93
PRINCETON COMBUSTION RES LABS	New Jersey	ARMY	RDTE/Weapons-Exploratory Development		60
PULSE SCIENCES INC	California	NAVY	RDTE/Weapons-Exploratory Development		77
QUANTIC INDUSTRIES INC	California	USAF	RDTE/Weapons-Exploratory Development		3,369
R & D ASSOCIATES	California	USAF	RDTE/Weapons-Exploratory Development		28
	Colorado	USAF	RDTE/Weapons-Exploratory Development		36
	New Mexico	USAF	RDTE/Weapons-Exploratory Development		250
CONTRACTOR TOTAL					2,549
RAYTHEON COMPANY	Mass	NAVY USAF	RDTE/Weapons-Exploratory Development RDTE/Weapons-Exploratory Development		2,835
					86
					5,601
					5,687
ROCKWELL INTERNATIONAL CORP	California	NAVY	RDTE/Weapons-Exploratory Development		100
	New Mexico	USAF	RDTE/Weapons-Exploratory Development		458
CONTRACTOR TOTAL					558
ROCKWELL POWER SYSTEMS	New Mexico	USAF	RDTE/Weapons-Exploratory Development		203
S SYSTEMS CORPORATION	New Mexico	USAF	RDTE/Weapons-Exploratory Development		593
SCHAFFER W J ASSOCIATES INC	Mass	USAF	RDTE/Weapons-Exploratory Development		140

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AC52 (CONTINUED)

SCIENCE & ENGINEERING ASSOC	New Mexico	USAF	RDTE/Weapons-Exploratory Development	\$	300
SPARTA INC	California	ARMY	RDTE/Weapons-Exploratory Development		222
STRESAU R LABORATORY INC	Wisconsin	NAVY	RDTE/Weapons-Exploratory Development		49
SYSTEM PLANNING CORPORATION	Virginia	ARMY	RDTE/Weapons-Exploratory Development		197
TEXAS INSTRUMENTS INC	Texas	NAVY	RDTE/Weapons-Exploratory Development		319
THIOLOL CORPORATION	Utah	USAF	RDTE/Weapons-Exploratory Development		290
UNIVERSITY OF CALIFORNIA	California	USAF	RDTE/Weapons-Exploratory Development		100
UNIVERSITY OF DENVER	Colorado	NAVY	RDTE/Weapons-Exploratory Development		823
UNIVERSITY OF IDAHO	Idaho	USAF	RDTE/Weapons-Exploratory Development		28
UNIVERSITY OF KENTUCKY	Kentucky	USAF	RDTE/Weapons-Exploratory Development		41
UNIVERSITY OF PITTSBURGH	Penn	USAF	RDTE/Weapons-Exploratory Development		98
UNIVERSITY OF TEXAS SYSTEM	Texas	ARMY	RDTE/Weapons-Exploratory Development		589
R&D TOTAL					46,018
AC53 ACUREX CORPORATION	Ohio	USAF	RDTE/Weapons-Advanced Development		1,520
ADAPTIVE OPTICS ASSOCIATES	New Mexico	USAF	RDTE/Weapons-Advanced Development		576
AMERICAN TELEPHONE & TELG CO	Penn	USAF	RDTE/Weapons-Advanced Development		574
APPLIED TECHNOLOGY ASSOCIATES	New Mexico	USAF	RDTE/Weapons-Advanced Development		1,470
ATLANTIC RESEARCH CORPORATION	Arkansas	USAF	RDTE/Weapons-Advanced Development		400
AVCO RESEARCH LABORATORY INC	Mass	USAF	RDTE/Weapons-Advanced Development		5,816
BALL CORPORATION	Colorado	USAF	RDTE/Weapons-Advanced Development		3,934
	New Mexico	USAF	RDTE/Weapons-Advanced Development		1,321
CONTRACTOR TOTAL					5,255
BDM INTERNATIONAL INC	New Mexico	USAF	RDTE/Weapons-Advanced Development		2,115
BOEING COMPANY THE	Washington	NAVY	RDTE/Weapons-Advanced Development		2,110-

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AC53 (CONTINUED)					
		STATE TOTAL	USAF	RDTE/Weapons-Advanced Development	\$ 349
	BCLT BERANEK & NEWMAN INC	California	NAVY	RDTE/Weapons-Advanced Development	1,761-
	CAMPBELL ALLEN M GEN CNTRS	New Mexico	USAF	RDTE/Weapons-Advanced Development	799
	COMPUTER SCIENCES CORPORATION	New Mexico	USAF	RDTE/Weapons-Advanced Development	71-
	CONTRAVES USA INC	Penn	USAF	RDTE/Weapons-Advanced Development	2,374
	DRAPER CHARLES STARK LAB INC	Mass	USAF	RDTE/Weapons-Advanced Development	3,376
	E I C LABORATORY INC	Mass	USAF	RDTE/Weapons-Advanced Development	2,215
	ELECTRO OPTEK CORPORATION	California	USAF	RDTE/Weapons-Advanced Development	59
	ELECTROMAGNETIC LAUNCH RESRCH	Mass	USAF	RDTE/Weapons-Advanced Development	50
	ELECTROMAGNETIC SCIENCES INC	Georgia	USAF	RDTE/Weapons-Advanced Development	955
	FIBERTEK INC	Virginia	USAF	RDTE/Weapons-Advanced Development	376
	FIORIO INDUSTRIES INCORPORATED	New Mexico	USAF	RDTE/Weapons-Advanced Development	49
	FMC CORPORATION	Minnesota	NAVY	RDTE/Weapons-Advanced Development	447
	FRIED D L ASSOCIATES INC	California	USAF	RDTE/Weapons-Advanced Development	3,330
	GARRET CORP	California	USAF	RDTE/Weapons-Advanced Development	1,130
	GCD ASSOCIATES	New Mexico	USAF	RDTE/Weapons-Advanced Development	29-
	GENERAL DYNAMICS CORPORATION	California	USAF	RDTE/Weapons-Advanced Development	289
		Michigan	NAVY	RDTE/Weapons-Advanced Development	1,068
					252
	CONTRACTOR TOTAL				1,320
	GENERAL ELECTRIC COMPANY	New Jersey	USAF	RDTE/Weapons-Advanced Development	588
		Penn	NAVY	RDTE/Weapons-Advanced Development	500
			USAF	RDTE/Weapons-Advanced Development	32
		STATE TOTAL			532
		Vermont	NAVY	RDTE/Weapons-Advanced Development	94

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION
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AC53 (CONTINUED)

CONTRACTOR TOTAL					\$	1,214
GRUMMAN AEROSPACE CORPORATION	New York	USAF	RDTE/Weapons-Advanced Development			400
HARRIS CORPORATION	Florida	USAF	RDTE/Weapons-Advanced Development			2,586
HONEYWELL INC	Arizona	USAF	RDTE/Weapons-Advanced Development			114
HUGHES AIRCRAFT COMPANY	California	USAF	RDTE/Weapons-Advanced Development			3,482
HUGHES DANBURY OPTICAL SYSTEMS	Conn	USAF	RDTE/Weapons-Advanced Development			1,078
I R T CORPORATION	California	USAF	RDTE/Weapons-Advanced Development			3,511
KAMAN CORPORATION	Conn	USAF	RDTE/Weapons-Advanced Development			5,204
KAMAN SCIENCES CORPORATION	New Mexico	USAF	RDTE/Weapons-Advanced Development			3,539
KTECH CORPORATION	New Mexico	USAF	RDTE/Weapons-Advanced Development			515
LOCKHEED MISSILES & SPACE CO	California	USAF	RDTE/Weapons-Advanced Development			4,327
	New Mexico	USAF	RDTE/Weapons-Advanced Development			1,858
	New Mexico	USAF	RDTE/Weapons-Advanced Development			6,185
LOGICON INC	New Mexico	USAF	RDTE/Weapons-Advanced Development			63-
LORAL CORPORATION	California	NAVY USAF	RDTE/Weapons-Advanced Development RDTE/Weapons-Advanced Development			5,578 67-
	STATE TOTAL					5,511
MARTIN MARIETTA CORPORATION	Colorado	USAF	RDTE/Weapons-Advanced Development			135
	Florida	ARMY	RDTE/Weapons-Advanced Development			32-
	Maryland	NAVY	RDTE/Weapons-Advanced Development			108
	CONTRACTOR TOTAL					211
MAXWELL LABORATORIES INC	California	NAVY USAF	RDTE/Weapons-Advanced Development RDTE/Weapons-Advanced Development			100 2,617-
	STATE TOTAL					2,517-
MCDONNELL DOUGLAS CORPORATION	Missouri	USAF	RDTE/Weapons-Advanced Development			2,358

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$	33-
AC53 (CONTINUED)						
	MCDONNELL DOUGLAS SPACE SYS CO	New Mexico	USAF	RDTE/Weapons-Advanced Development		33-
	MISSION RESEARCH CORPORATION	California	USAF	RDTE/Weapons-Advanced Development		75
		New Mexico	USAF	RDTE/Weapons-Advanced Development		2,809
						2,884
						1,619
	CONTRACTOR TOTAL					
	NEW MEXICO STATE OF	New Mexico	USAF	RDTE/Weapons-Advanced Development		156
	PHYSICS INTERNATIONAL COMPANY	California	NAVY	RDTE/Weapons-Advanced Development		67
	POWER SPECTRA INC	California	USAF	RDTE/Weapons-Advanced Development		485
	PRC INC	New Mexico	USAF	RDTE/Weapons-Advanced Development		639
	R & D ASSOCIATES	California	USAF	RDTE/Weapons-Advanced Development		2,197
		New Mexico	USAF	RDTE/Weapons-Advanced Development		2,836
	CONTRACTOR TOTAL					
	ROCKWELL INTERNATIONAL CORP	California	USAF	RDTE/Weapons-Advanced Development		4,231
	ROCKWELL POWER SYSTEMS	New Mexico	USAF	RDTE/Weapons-Advanced Development		4,421
	S SYSTEMS CORPORATION	New Mexico	USAF	RDTE/Weapons-Advanced Development		3,322
	SCHAFFER W J ASSOCIATES INC	Mass	USAF	RDTE/Weapons-Advanced Development		808
	SCI TEC INC	New Jersey	USAF	RDTE/Weapons-Advanced Development		400
	SCIENCE & ENGINEERING ASSOC	New Mexico	USAF	RDTE/Weapons-Advanced Development		174
	SCIENCE APPLICATIONS INTL CORP	New Mexico	USAF	RDTE/Weapons-Advanced Development		1,178
	SONALYSTS INC	Conn	NAVY	RDTE/Weapons-Advanced Development		30
	SPARTA INC	California	USAF	RDTE/Weapons-Advanced Development		256
	SPECTRA DIODE LABORATORIES	California	USAF	RDTE/Weapons-Advanced Development		728
	SPECTRA TECHNOLOGY INC	Washington	USAF	RDTE/Weapons-Advanced Development		281
	SUMMA TECHNOLOGY INC	Alabama	ARMY	RDTE/Weapons-Advanced Development		3,149
		Georgia	ARMY	RDTE/Weapons-Advanced Development		98

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
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AC53 (CONTINUED)

## CONTRACTOR TOTAL

TEXAS INSTRUMENTS INC	Texas	USAF	RDTE/Weapons-Advanced Development	3,247
TRW INC	California	ARMY	RDTE/Weapons-Advanced Development	1,140
	USAF	RDTE/Weapons-Advanced Development	1,384	
			16,631	
STATE TOTAL				18,015

363

## CONTRACTOR TOTAL

UNITED TECHNOLOGIES CORP	Conn	USAF	RDTE/Weapons-Advanced Development	18,378
	Florida	USAF	RDTE/Weapons-Advanced Development	965
CONTRACTOR TOTAL				1,104

2,069

## UNIVERSITY OF ARIZONA

1,145

## UNIVERSITY OF FLORIDA

836

## UNIVERSITY OF SOUTH FLORIDA

240

## VOSS SCIENTIFIC

1,103

## WOODS HOLE OCEANOGRAPHIC INSTITUTE

266

## WYLE LABORATORIES

1,053

## R&amp;D TOTAL

119,282

## AC54 ADEC INTERNATIONAL AUTOMATION

410

## ALLIANT TECHSYSTEMS INC

3,454

## CONTRACTOR TOTAL

10,854

## ANALYTIC SCIENCE CORP THE

14,308

## ARINC RESEARCH CORPORATION

2,013

## AUBURN UNIVERSITY

3,206

379

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AC54 (CONTINUED)					
	AVCO CORPORATION	Mass	USAF	RDTE/Weapons-Engineering Development	26,310
	BATTELLE MEMORIAL INSTITUTE	Ohio	USAF	RDTE/Weapons-Engineering Development	92
	CDM INTERNATIONAL INC	New Mexico	USAF	RDTE/Weapons-Engineering Development	2,468
	BICOASTAL CORPORATION	California	NAVY	RDTE/Weapons-Engineering Development	4,000
	BOOZ ALLEN & HAMILTON INC	New Mexico	USAF	RDTE/Weapons-Engineering Development	448
	CANADIAN COMMERCIAL CORP	CANADA	ARMY	RDTE/Weapons-Engineering Development	37
	CHAMBERLAIN MANUFACTURING CORP	Iowa	ARMY NAVY	RDTE/Weapons-Engineering Development RDTE/Weapons-Engineering Development	26- 5,000
			STATE TOTAL		4,974
	COMPUTER SCIENCES CORPORATION	New Mexico	USAF	RDTE/Weapons-Engineering Development	50
		Virginia	USAF	RDTE/Weapons-Engineering Development	177-
					127-
	CONTRACTOR TOTAL				235
	CONTROL DATA CANADA LTD	CANADA	ARMY	RDTE/Weapons-Engineering Development	378
	DATACOM INC	Florida	NAVY	RDTE/Weapons-Engineering Development	50
	DATATEC INC FORT WALTON BEACH	Florida	NAVY	RDTE/Weapons-Engineering Development	135
	DYNAMAC CORPORATION	Maryland	NAVY	RDTE/Weapons-Engineering Development	50
	ELECTRONIC COMPONENT SALES	Virginia	NAVY	RDTE/Weapons-Engineering Development	623-
	GENERAL DYNAMICS CORPORATION	California	ARMY NAVY USAF	RDTE/Weapons-Engineering Development RDTE/Weapons-Engineering Development RDTE/Weapons-Engineering Development	2,127 5,525
			STATE TOTAL		7,029
	HARRIS CORPORATION	Florida	USAF	RDTE/Weapons-Engineering Development	36
	HARSCO CORPORATION	Penn	ARMY	RDTE/Weapons-Engineering Development	77,649
	JOHNS HOPKINS UNIVERSITY	Maryland	NAVY	RDTE/Weapons-Engineering Development	235,788
	KAMAN SCIENCES CORPORATION	New Mexico	USAF	RDTE/Weapons-Engineering Development	735

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AC54 (CONTINUED)

LEAR ASTRONICS CORP	California	USAF	RDTE/Weapons-Engineering Development	\$	629
LINK SAT INC	Virginia	NAVY	RDTE/Weapons-Engineering Development		136
LORAL CORPORATION	Ohio	NAVY	RDTE/Weapons-Engineering Development		75,625
MARTIN MARIETTA WESTNGHSE JV	Florida	ARMY	RDTE/Weapons-Engineering Development		22,432
MISSION RESEARCH CORPORATION	California	USAF	RDTE/Weapons-Engineering Development		1,721
NEW MEXICO STATE OF	New Mexico	USAF	RDTE/Weapons-Engineering Development		922
OPTIC ELECTRONIC CORP	Texas	ARMY	RDTE/Weapons-Engineering Development		63
ORION INTL TECHNOLOGIES	New Mexico	USAF	RDTE/Weapons-Engineering Development		405
PACER SYSTEMS INC	Florida	NAVY	RDTE/Weapons-Engineering Development		3,621
S TRON	California	ARMY	RDTE/Weapons-Engineering Development		191
SCIENCE APPLICATIONS INTL CORP	New Mexico	USAF	RDTE/Weapons-Engineering Development		406
SPARTON CORPORATION	Michigan	NAVY	RDTE/Weapons-Engineering Development		4,090
SRI INTERNATIONAL	California	NAVY	RDTE/Weapons-Engineering Development		29
T S C INC	California	NAVY	RDTE/Weapons-Engineering Development		157
TECHNICAL DATA DEVELOPMENT	Illinois	ARMY	RDTE/Weapons-Engineering Development		99
TECHNOMICS INC	California	NAVY	RDTE/Weapons-Engineering Development		260
TRACOR APPLIED SCIENCES INC	Texas	NAVY	RDTE/Weapons-Engineering Development		1,801
UNITED INTERNATIONAL ENGRG	New Mexico	USAF	RDTE/Weapons-Engineering Development		1,188
WESTINGHOUSE ELECTRIC CORP	Ohio	NAVY	RDTE/Weapons-Engineering Development		8,348
R&D TOTAL					502,726
AC55 ARINC RESEARCH CORPORATION	California	NAVY	RDTE/Weapons-Operational Systems Developme		296
AVCO CORPORATION	California	USAF	RDTE/Weapons-Operational Systems Developme		313
BDM INTERNATIONAL INC	New Mexico	USAF	RDTE/Weapons-Operational Systems Developme		1,452
BOOZ ALLEN & HAMILTON INC	New Mexico	USAF	RDTE/Weapons-Operational Systems Developme		1,039

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	-R&D DESCRIPTION-	
AC55 (CONTINUED)					
	COMPUTER SCIENCES CORPORATION	New Mexico	USAF	RDTE/Weapons-Operational Systems Developme	\$ 80
	CORREA ENTERPRISES INC	New Mexico	USAF	RDTE/Weapons-Operational Systems Developme	829
	ENTEK INC	New Mexico	USAF	RDTE/Weapons-Operational Systems Developme	294
	FIGORE INDUSTRIES INCORPORATED	New Mexico	USAF	RDTE/Weapons-Operational Systems Developme	50
	GRUMMAN AEROSPACE CORPORATION	New York	ARMY	RDTE/Weapons-Operational Systems Developme	500
	HONEYWELL INC	New Mexico	ARMY	RDTE/Weapons-Operational Systems Developme	870
	HUGHES AIRCRAFT COMPANY	California	USAF	RDTE/Weapons-Operational Systems Developme	117
	HUNTING ENGINEERING LTD	UNITED KIN	USAF	RDTE/Weapons-Operational Systems Developme	74
	I R T CORPORATION	California	USAF	RDTE/Weapons-Operational Systems Developme	660
	KAMAN SCIENCES CORPORATION	New Mexico	USAF	RDTE/Weapons-Operational Systems Developme	122
	KTECH CORPORATION	New Mexico	USAF	RDTE/Weapons-Operational Systems Developme	94
	MAXWELL LABORATORIES INC	California	USAF	RDTE/Weapons-Operational Systems Developme	327
	MISSION RESEARCH CORPORATION	California	USAF	RDTE/Weapons-Operational Systems Developme	692
	NEW MEXICO STATE OF	New Mexico	USAF	RDTE/Weapons-Operational Systems Developme	3,721
	OKLAHOMA STATE UNIVERSITY	Florida	USAF	RDTE/Weapons-Operational Systems Developme	1,985
	PRC INC	New Mexico	USAF	RDTE/Weapons-Operational Systems Developme	2,091
	PROTEUS CORPORATION	New Mexico	USAF	RDTE/Weapons-Operational Systems Developme	604
	R & D ASSOCIATES	California	USAF	RDTE/Weapons-Operational Systems Developme	323
		Colorado	USAF	RDTE/Weapons-Operational Systems Developme	715
	CONTRACTOR TOTAL				1,038
	ROCKWELL POWER SYSTEMS	New Mexico	USAF	RDTE/Weapons-Operational Systems Developme	412
	S SYSTEMS CORPORATION	New Mexico	USAF	RDTE/Weapons-Operational Systems Developme	318
	SCIENCE & ENGINEERING ASSOC	New Mexico	USAF	RDTE/Weapons-Operational Systems Developme	83
	SCIENCE APPLICATIONS INTL CORP	New Mexico	USAF	RDTE/Weapons-Operational Systems Developme	5,994

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R&D	CONTRACTOR NAME	ST/CONTRY	DEPT	R&D DESCRIPTION	\$
AC55 (CONTINUED)					
	SYNETIX INC	New Mexico	USAF	RDTE/Weapons-Operational Systems Developme	1,950-
	TECH REPS INCORPORATED	New Mexico	USAF	RDTE/Weapons-Operational Systems Developme	336
	TRACOR FLIGHT SERVICES INC	California	NAVY	RDTE/Weapons-Operational Systems Developme	1,115
	UNIVERSITY OF ARIZONA	Arizona	USAF	RDTE/Weapons-Operational Systems Developme	95
	R&D TOTAL				23,651
AC56	ANALYTIC SCIENCE CORP THE	Florida	USAF	RDTE/Weapons-Management & Support	125
	ANTRO PIX CORPORATION	Texas	USAF	RDTE/Weapons-Management & Support	74
	AVOCA LABORATORIES INC	New York	USAF	RDTE/Weapons-Management & Support	47
	AVOGADRO ENERGY SYSTEMS INC	New York	USAF	RDTE/Weapons-Management & Support	50
	BIO IMAGING RESEARCH INC	Illinois	USAF	RDTE/Weapons-Management & Support	51
	BURKE TECHNOLOGIES INC	California	USAF	RDTE/Weapons-Management & Support	50
	DEFENSE TECHNOLOGY INC	Virginia	NAVY	RDTE/Weapons-Management & Support	682
	DISPLAYTECH INC	Colorado	USAF	RDTE/Weapons-Management & Support	170
	DYNACS ENGINEERING CO INC	Florida	USAF	RDTE/Weapons-Management & Support	48
	ELECTRIC PROPULSION LABORATORY	California	USAF	RDTE/Weapons-Management & Support	87
	ENVIRONMENTAL RES INST OF MICH	Michigan	USAF	RDTE/Weapons-Management & Support	51
	FIORE INDUSTRIES INCORPORATED	New Mexico	USAF	RDTE/Weapons-Management & Support	320
	FOSTER MILLER INC	Mass	USAF	RDTE/Weapons-Management & Support	178
	LASER PHOTONICS INC	Mass	USAF	RDTE/Weapons-Management & Support	49
	LITTON SYSTEMS INC	Mass	USAF	RDTE/Weapons-Management & Support	605
	MERIT TECHNOLOGY INC	Texas	USAF	RDTE/Weapons-Management & Support	572
	PHYSICAL OPTICS CORPORATION	California	USAF	RDTE/Weapons-Management & Support	447
	SCIENCE APPLICATIONS INTL CORP	New Mexico	USAF	RDTE/Weapons-Management & Support	34
	SCIENTIFIC RESEARCH ASSOC INC	Conn	USAF	RDTE/Weapons-Management & Support	311

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AC56 (CONTINUED)

SECHAN ELECTRONICS INC	Penn	ARMY	RDTE/Weapons-Management & Support	\$	648
SPACE & AERONAUTICAL	Colorado	USAF	RDTE/Weapons-Management & Support		50
SRS TECHNOLOGIES	Alabama	USAF	RDTE/Weapons-Management & Support		50
TACAN CORPORATION	California	USAF	RDTE/Weapons-Management & Support		55
TALANDIC RESEARCH CORPORATION	Arizona	USAF	RDTE/Weapons-Management & Support		264
TEXAS RESEARCH INTERNATIONAL	Texas	USAF	RDTE/Weapons-Management & Support		58
ULTRAMET	California	USAF	RDTE/Weapons-Management & Support		49
UNIVERSITY OF ILLINOIS	Illinois	USAF	RDTE/Weapons-Management & Support		50
VITRO CORPORATION	Louisiana	NAVY	RDTE/Weapons-Management & Support		38
	Maine	NAVY	RDTE/Weapons-Management & Support		705
	Michigan	NAVY	RDTE/Weapons-Management & Support		124
	Miss	NAVY	RDTE/Weapons-Management & Support		634
	New Jersey	NAVY	RDTE/Weapons-Management & Support		132
	Virginia	NAVY	RDTE/Weapons-Management & Support		7,207
					8,840
CONTRACTOR TOTAL					205
VOSS SCIENTIFIC	New Mexico	USAF	RDTE/Weapons-Management & Support		14,220
R&D TOTAL					
AC61 ADAPTIVE SENSORS INC	California	ARMY	RDTE/Electronics & Communication Eq-Basic		50
ADVEC CORP	New Mexico	NAVY	RDTE/Electronics & Communication Eq-Basic		226
AEL INDUSTRIES INC	Penn	USAF	RDTE/Electronics & Communication Eq-Basic		520
AERODYNE RESEARCH INC	Mass	ARMY	RDTE/Electronics & Communication Eq-Basic		190
ALLIED SIGNAL INC	California	NAVY	RDTE/Electronics & Communication Eq-Basic		120
AMERICAN TELEPHONE & TELG CO	N Carolina	NAVY	RDTE/Electronics & Communication Eq-Basic		1,200
AMHERST SYSTEMS INC	New York	ARMY	RDTE/Electronics & Communication Eq-Basic		50

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R-D DESCRIPTION	\$
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AC61 (CONTINUED)

			USAF	RDTE/Electronics & Communication Eq-Basic	200
		STATE TOTAL			250
ANALYSIS & COMPUTER SYSTEMS	Mass	USAF	RDTE/Electronics & Communication Eq-Basic	50	
ANALYSIS & SIMULATION INC	New York	ARMY	RDTE/Electronics & Communication Eq-Basic	50	
APTEK INC	Colorado	USAF	RDTE/Electronics & Communication Eq-Basic	200	
ARETE ASSOCIATES	California	NAVY	RDTE/Electronics & Communication Eq-Basic	283	
ASSOCIATES ENTERPRISES	Maryland	NAVY	RDTE/Electronics & Communication Eq-Basic	50	
ATLANTIC AEROSPACE ELECTRONICS	Maryland	ARMY	RDTE/Electronics & Communication Eq-Basic	100	
	Mass	ARMY	RDTE/Electronics & Communication Eq-Basic	2,526	
		NAVY	RDTE/Electronics & Communication Eq-Basic	55	
		STATE TOTAL		2,581	
				2,681	
CONTRACTOR TOTAL					
B K SECURITY	Maryland	ARMY	RDTE/Electronics & Communication Eq-Basic	250	
BDM INTERNATIONAL INC	Virginia	ARMY	RDTE/Electronics & Communication Eq-Basic	501	
BRIMROSE CORP OF AMERICA	Maryland	ARMY	RDTE/Electronics & Communication Eq-Basic	50	
CARNEGIE MELLON UNIVERSITY	Penn	NAVY	RDTE/Electronics & Communication Eq-Basic	1,860	
CENTER FOR REMOTE SENSING	Virginia	ARMY	RDTE/Electronics & Communication Eq-Basic	260	
CHANG INDUSTRY INC	California	ARMY	RDTE/Electronics & Communication Eq-Basic	316	
CHARLES SYSTEMS CORP	Michigan	ARMY	RDTE/Electronics & Communication Eq-Basic	50	
CLEMSON UNIVERSITY	Maryland	NAVY	RDTE/Electronics & Communication Eq-Basic	253	
COMBUSTION ENGINEERING INC	Arizona	ARMY	RDTE/Electronics & Communication Eq-Basic	182	
COMMEALTH COMPUTER RESEARCH	Virginia	ARMY	RDTE/Electronics & Communication Eq-Basic	49	
COPROCESSOR CORPORATION	Florida	ARMY	RDTE/Electronics & Communication Eq-Basic	185	
CUBIC CORPORATION	California	USAF	RDTE/Electronics & Communication Eq-Basic	717	
D 2C	California	NAVY	RDTE/Electronics & Communication Eq-Basic	55	

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## PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CONTRY	DEPT	R&D DESCRIPTION	\$
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AC61 (CONTINUED)

DATA SYSTEMS ANALYSTS INC	New Jersey	ARMY	RDTE/Electronics & Communication	Eq-Basic	243
DAVID SARNOFF RESEARCH CENTER	New Jersey	ARMY	RDTE/Electronics & Communication	Eq-Basic	250
DCS CORPORATION	Virginia	ARMY	RDTE/Electronics & Communication	Eq-Basic	50
DELTA INFORMATION SYSTEMS	Penn	ARMY	RDTE/Electronics & Communication	Eq-Basic	49
DIGITAL RADIO CORP	California	ARMY	RDTE/Electronics & Communication	Eq-Basic	91
DYNAFLOW INC	Maryland	NAVY	RDTE/Electronics & Communication	Eq-Basic	267
DYNAMIC ANALYSIS & TEST ASSOC	California	USAF	RDTE/Electronics & Communication	Eq-Basic	350
E SYSTEMS INC	Florida	ARMY	RDTE/Electronics & Communication	Eq-Basic	635
E TEK DYNAMICS INC	California	ARMY	RDTE/Electronics & Communication	Eq-Basic	50
EG&G INC	Nevada	USAF	RDTE/Electronics & Communication	Eq-Basic	349
ELECTRO MAGNETIC APPLICATION	Colorado	ARMY	RDTE/Electronics & Communication	Eq-Basic	98
ELECTRO OPTEK CORPORATION	California	ARMY	RDTE/Electronics & Communication	Eq-Basic	50
ELECTRO RADIATION INC	New Jersey	ARMY	RDTE/Electronics & Communication	Eq-Basic	100
ELECTRONIC DECISIONS INC	Illinois	ARMY	RDTE/Electronics & Communication	Eq-Basic	47
ENERGY COMPRESSION RES CORP	California	ARMY	RDTE/Electronics & Communication	Eq-Basic	50
ENERGY SCIENCE LABORATORIES	California	ARMY	RDTE/Electronics & Communication	Eq-Basic	50
EPSILON LAMBDA ELECTRONICS	Illinois	ARMY	RDTE/Electronics & Communication	Eq-Basic	50
ESL INCORPORATED	California	ARMY	RDTE/Electronics & Communication	Eq-Basic	489
	GERMANY	ARMY	RDTE/Electronics & Communication	Eq-Basic	257
CONTRACTOR TOTAL					746
FASTMAN INC	Penn	ARMY	RDTE/Electronics & Communication	Eq-Basic	50
FEMME COMP INC	Virginia	ARMY	RDTE/Electronics & Communication	Eq-Basic	162
FIBERTEK INC	Virginia	ARMY	RDTE/Electronics & Communication	Eq-Basic	182
FLIGHT INNOVATIONS	Washington	NAVY	RDTE/Electronics & Communication	Eq-Basic	111

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AC61 (CONTINUED)					
	FOSTER MILLER INC	Mass	ARMY	RDTE/Electronics & Communication Eq-Basic	50
	GARDNER RESEARCH CO	California	NAVY	RDTE/Electronics & Communication Eq-Basic	43
	GENERAL ELECTRIC COMPANY	New Jersey	NAVY	RDTE/Electronics & Communication Eq-Basic	1,374
		New York	NAVY	RDTE/Electronics & Communication Eq-Basic	231
	CONTRACTOR TOTAL				1,605
	GENERAL NETWORK CORP	Conn	ARMY	RDTE/Electronics & Communication Eq-Basic	25
	GENERAL SCIENCES INC	Penn	NAVY	RDTE/Electronics & Communication Eq-Basic	70
	GEORGIA INSTITUTE TECHNOLOGY	Georgia	ARMY	RDTE/Electronics & Communication Eq-Basic	62
	GEORGIA TECH RESEARCH CORP	Georgia	ARMY	RDTE/Electronics & Communication Eq-Basic	1,772
	GREEN MOUNTAIN RADIO RES CO	Vermont	ARMY	RDTE/Electronics & Communication Eq-Basic	310
	GSC ASSOCIATES INC	California	NAVY	RDTE/Electronics & Communication Eq-Basic	50
	HARRIS CORPORATION	New York	NAVY	RDTE/Electronics & Communication Eq-Basic	81
	HAYES & ASSOCIATES	California	ARMY	RDTE/Electronics & Communication Eq-Basic	50
	HAZELTINE CORPORATION	New York	ARMY	RDTE/Electronics & Communication Eq-Basic	98
	HUGHES AIRCRAFT COMPANY	California	ARMY	RDTE/Electronics & Communication Eq-Basic	379
	HUGHES DANBURY OPTICAL SYSTEMS	Conn	ARMY	RDTE/Electronics & Communication Eq-Basic	93
	II VI INCORPORATED	Penn	ARMY	RDTE/Electronics & Communication Eq-Basic	497
	ILLINOIS SUPERCONDUCTOR CORP	Illinois	ARMY	RDTE/Electronics & Communication Eq-Basic	50
	INTEGRATED SENSORS INC	New York	ARMY	RDTE/Electronics & Communication Eq-Basic	50
	INTEGRATED SOFTWARE INC	Florida	ARMY	RDTE/Electronics & Communication Eq-Basic	298
	INTEGRATED SYS RES CORPORATION	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Basic	250
	INTERACTIVE INTELLIGENT IMAGE	California	NAVY	RDTE/Electronics & Communication Eq-Basic	50
	INTERNATIONAL MOBILE MCHS CORP	Penn	ARMY	RDTE/Electronics & Communication Eq-Basic	250
	INTERSCIENCE INC	New York	ARMY	RDTE/Electronics & Communication Eq-Basic	48

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AC61 (CONTINUED)					
	IRI INTERNATIONAL CORPORATION	California	ARMY	RDTE/Electronics & Communication Eq-Basic	173
	ITT CORPORATION	Indiana	ARMY	RDTE/Electronics & Communication Eq-Basic	403
	ITT GILFILLAN	California	NAVY	RDTE/Electronics & Communication Eq-Basic	46
	KAISER OPTICAL SYSTEMS INC	Michigan	ARMY	RDTE/Electronics & Communication Eq-Basic	100
	L N K CORPORATION	Maryland	NAVY	RDTE/Electronics & Communication Eq-Basic	40
	LABTEK CORP	Conn	ARMY	RDTE/Electronics & Communication Eq-Basic	50
	LASER TECHNOLOGY ASSOCIATES	New York	ARMY	RDTE/Electronics & Communication Eq-Basic	250
	LICA SYSTEMS INC	Virginia	ARMY	RDTE/Electronics & Communication Eq-Basic	144
	LOCKHEED SANDERS INC	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Basic	271
	LORAL CORPORATION	California	USAF	RDTE/Electronics & Communication Eq-Basic	250
	MAGNAVOX GOVT & INDUSTRIAL ELCTR	Indiana	USAF	RDTE/Electronics & Communication Eq-Basic	54
	MALIBU RESEARCH ASSOCIATES	California	ARMY	RDTE/Electronics & Communication Eq-Basic	62
	MARTIN MARIETTA CORPORATION	Maryland	ARMY	RDTE/Electronics & Communication Eq-Basic	174
	MERIT TECHNOLOGY INC	Texas	ARMY	RDTE/Electronics & Communication Eq-Basic	50
	MICRILOR INC	Mass	ARMY	RDTE/Electronics & Communication Eq-Basic	50
	MICROTRONICS ASSOCIATES INC	Penn	ARMY	RDTE/Electronics & Communication Eq-Basic	50
	MICROWAVE DEVICE TECHNOLOGY	Mass	NAVY	RDTE/Electronics & Communication Eq-Basic	50
	MYRIAS COMPUTER CORP	New Mexico	USAF	RDTE/Electronics & Communication Eq-Basic	99-
	NAVSYS CORP	Colorado	ARMY USAF	RDTE/Electronics & Communication Eq-Basic RDTE/Electronics & Communication Eq-Basic	47 50
		STATE TOTAL			97
	NORTHROP CORPORATION	California	ARMY	RDTE/Electronics & Communication Eq-Basic	210
		Illinois	ARMY	RDTE/Electronics & Communication Eq-Basic	130
	CONTRACTOR TOTAL				360

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AC61 (CONTINUED)					
	NOVA ENGINEERING INC	Ohio	ARMY	RDTE/Electronics & Communication Eq-Basic	49
	OCEAN & ATMOSPHERIC SCIENCE	New York	NAVY	RDTE/Electronics & Communication Eq-Basic	276
	OHIO STATE UNIVERSITY	Ohio	ARMY	RDTE/Electronics & Communication Eq-Basic	74
	OHIO UNIVERSITY	Ohio	ARMY	RDTE/Electronics & Communication Eq-Basic	186
	OREGON GRAD CTR STUDY RESEARCH	Oregon	ARMY	RDTE/Electronics & Communication Eq-Basic	400
	ORINCON CORPORATION	California	ARMY	RDTE/Electronics & Communication Eq-Basic	50
	OXFORD COMPUTER INC	Conn	ARMY	RDTE/Electronics & Communication Eq-Basic	50
	PACIFIC SIERRA RESEARCH CORP	California	NAVY	RDTE/Electronics & Communication Eq-Basic	355
	PECHT ASSOCIATES	Maryland	ARMY	RDTE/Electronics & Communication Eq-Basic	50
	PERII SYSTEMS INC	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Basic	49
	PHYSICAL SCIENCES INC	Mass	NAVY	RDTE/Electronics & Communication Eq-Basic	50
	PROGRAM DEVELOPMENT CORP	New York	USAF	RDTE/Electronics & Communication Eq-Basic	200
	Q DOT INC	Colorado	NAVY	RDTE/Electronics & Communication Eq-Basic	230
	RACAL COMMUNICATIONS INC	Maryland	USAF	RDTE/Electronics & Communication Eq-Basic	13,516
	RACAL RECORDERS INC	Virginia	NAVY	RDTE/Electronics & Communication Eq-Basic	59
	RALCON	Utah	ARMY	RDTE/Electronics & Communication Eq-Basic	90
	RAYTHEON COMPANY	Mass	NAVY	RDTE/Electronics & Communication Eq-Basic	60
	RESEARCH DEVICES	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Basic	300
	RF MICROSYSTEMS INC	California	NAVY	RDTE/Electronics & Communication Eq-Basic	621
	ROCKWELL INTERNATIONAL CORP	California	ARMY	RDTE/Electronics & Communication Eq-Basic	556
	CONTRACTOR TOTAL	Texas	NAVY	RDTE/Electronics & Communication Eq-Basic	281
					837
	S C S TELECOM INC	New York	ARMY	RDTE/Electronics & Communication Eq-Basic	676
	SANDERS & AEL JV	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Basic	25,254
	SCHWARTZ ELECTRO-OPTICS INC	Florida	ARMY	RDTE/Electronics & Communication Eq-Basic	50

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CTRY	DEPT	R&D DESCRIPTION	
AC61 (CONTINUED)					
			USAF	RTE/Electronics & Communication Eq-Basic	\$ 300
	STATE TOTAL				350
	SCIENCE APPLICATIONS INTL CORP	Virginia	ARMY	RDTE/Electronics & Communication Eq-Basic	503
	SCIENTIFIC SYSTEMS INC	Illinois	ARMY	RDTE/Electronics & Communication Eq-Basic	50
	SEIDCON INC	California	ARMY	RTE/Electronics & Communication Eq-Basic	50
	SENSIS CORPORATION	New York	NAVY	RDTE/Electronics & Communication Eq-Basic	59
	SIGNAL ANALYTICS	Maryland	ARMY	RDTE/Electronics & Communication Eq-Basic	178
		Virginia	ARMY	RDTE/Electronics & Communication Eq-Basic	50
	CONTRACTOR TOTAL				228
	SOFTWARE ENGINEERING ASSOC	Conn	ARMY	RDTE/Electronics & Communication Eq-Basic	50
	SOFTWARE PRODUCTIVITY SOLUTIONS	Florida	ARMY	RDTE/Electronics & Communication Eq-Basic	50
	SONATECH INC	California	NAVY	RDTE/Electronics & Communication Eq-Basic	233
	SPACE APPLICATIONS CORPORATION	Washington	ARMY	RDTE/Electronics & Communication Eq-Basic	50
	SPARTA INC	California	ARMY	RDTE/Electronics & Communication Eq-Basic	56
		Virginia	ARMY	RDTE/Electronics & Communication Eq-Basic	1,658
	CONTRACTOR TOTAL				1,714
	SPIRE CORPORATION	Mass	NAVY	RDTE/Electronics & Communication Eq-Basic	32
	SRI INTERNATIONAL	California	NAVY	RDTE/Electronics & Communication Eq-Basic	189
	SYSTEM DYNAMICS INTERNATIONAL	Florida	ARMY	RDTE/Electronics & Communication Eq-Basic	108
	SYSTEMS & PROCESSES ENGRG CORP	Texas	ARMY	RDTE/Electronics & Communication Eq-Basic	50
	T A I CORPORATION	Alabama	ARMY	RDTE/Electronics & Communication Eq-Basic	50
	T P L INC	California	NAVY	RDTE/Electronics & Communication Eq-Basic	510
	TECHISCAN INC	Utah	NAVY	RDTE/Electronics & Communication Eq-Basic	50
	TECHNOCHEM CO	N Carolina	NAVY	RDTE/Electronics & Communication Eq-Basic	52

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/ENTRY	DEPT	R&D DESCRIPTION	
AC61	(CONTINUED)				
	TESSCO ELCTRNIC SYSTEMS SPPORT	Texas	NAVY	RDTE/Electronics & Communication Eq-Basic	\$ 676
	TEXAS INSTRUMENTS INC	Texas	NAVY	RDTE/Electronics & Communication Eq-Basic	652
	TEXAS MICROSYSTEMS INC	Texas	ARMY	RDTE/Electronics & Communication Eq-Basic	50
	TRI TESSCO	Texas	NAVY	RDTE/Electronics & Communication Eq-Basic	177
	TRW INC	California	NAVY	RDTE/Electronics & Communication Eq-Basic	288
	UNIVERSITY OF HOUSTON SYSTEM	Texas	NAVY	RDTE/Electronics & Communication Eq-Basic	117
	UNIVERSITY OF ILLINOIS	Illinois	ARMY	RDTE/Electronics & Communication Eq-Basic	80
	UNIVERSITY OF KANSAS	Kansas	NAVY	RDTE/Electronics & Communication Eq-Basic	70
	UNIVERSITY OF SOUTHERN CALIF	California	USAF	RDTE/Electronics & Communication Eq-Basic	1,944
	UNIVERSITY OF TEXAS SYSTEM	Texas	USAF	RDTE/Electronics & Communication Eq-Basic	65
	UNIVERSITY OF WASHINGTON	Washington	NAVY	RDTE/Electronics & Communication Eq-Basic	12,387
	UNIXPROS INC	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Basic	49
			NAVY	RDTE/Electronics & Communication Eq-Basic	49
			STATE TOTAL		98
	VISTA RESEARCH CORPORATION	Arizona	ARMY	RDTE/Electronics & Communication Eq-Basic	144
	WAGNER DANIEL H ASSOCIATES	Penn	NAVY	RDTE/Electronics & Communication Eq-Basic	50
	WATKINS JOHNSON COMPANY	California	USAF	RDTE/Electronics & Communication Eq-Basic	296
	XQ INSTRUMENTS	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Basic	251
	R&D TOTAL				88,544
AC62	A A I CORPORATION	Maryland	USAF	RDTE/Electronics & Communication Eq-Explor	517
	A J SYSTEMS	California	NAVY	RDTE/Electronics & Communication Eq-Explor	51
	ADVANCED ACOUSTICAL CONCEPTS	New York	NAVY	RDTE/Electronics & Communication Eq-Explor	102
	ADVANCED ENTERMEASURE SYSTEMS	California	NAVY	RDTE/Electronics & Communication Eq-Explor	50
	ADVANCED DECISION SYSTEMS	California	USAF	RDTE/Electronics & Communication Eq-Explor	257

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AC62 (CONTINUED)					
	ADVANCED DIGITAL SYSTEM INC	California	NAVY	RDTE/Electronics & Communication Eq-Explor	1,317
	ADVANCED TECHNOLOGY MATERIALS	Conn	ARMY	RDTE/Electronics & Communication Eq-Explor	50
	AEL DEFENSE CORP	Penn	NAVY	RDTE/Electronics & Communication Eq-Explor	425
	AEROJET	California	USAF	RDTE/Electronics & Communication Eq-Explor	142
	AEROSMITH SYSTEMS INC	California	ARMY	RDTE/Electronics & Communication Eq-Explor	49
	AEROSPACE MASS PRPTS ANALYSIS	Penn	NAVY	RDTE/Electronics & Communication Eq-Explor	556
	AHNTECH INC	California	NAVY	RDTE/Electronics & Communication Eq-Explor	299
	ALLIANT TECHSYSTEMS INC	Minnesota	ARMY	RDTE/Electronics & Communication Eq-Explor	4,239
		Penn	ARMY	RDTE/Electronics & Communication Eq-Explor	251
	CONTRACTOR TOTAL				4,490
	ALLIED SIGNAL INC	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Explor	50-
	ALTERNATIVE SYSTEM CONCEPTS	N.H.	ARMY	RDTE/Electronics & Communication Eq-Explor	50
	AMERICAN GNC CORP	California	USAF	RDTE/Electronics & Communication Eq-Explor	50
	AMERICAN TELEPHONE & TELG CO	New Jersey	NAVY	RDTE/Electronics & Communication Eq-Explor	211
	AMHERST SYSTEMS INC	New York	NAVY	RDTE/Electronics & Communication Eq-Explor	50
	ANALOGY INC	Oregon	ARMY	RDTE/Electronics & Communication Eq-Explor	75
	ANALYTIC SCIENCE CORP THE	Mass	ARMY	RDTE/Electronics & Communication Eq-Explor	793
	APPLIED HYDRO ACOUSTICS RES	Maryland	NAVY	RDTE/Electronics & Communication Eq-Explor	47
	APPLIED MEASUREMENT SYSTEMS	Florida	NAVY	RDTE/Electronics & Communication Eq-Explor	5,532
	APPLIED ORDNANCE TECHNOLOGY	Maryland	NAVY	RDTE/Electronics & Communication Eq-Explor	69
	APPLIED SCIENCES INC	Ohio	NAVY	RDTE/Electronics & Communication Eq-Explor	57
	ARGOTEC INC	Florida	NAVY	RDTE/Electronics & Communication Eq-Explor	59
	ARINC RESEARCH CORPORATION	Maryland	ARMY	RDTE/Electronics & Communication Eq-Explor	1,234
	ASTRON CORPORATION	Virginia	ARMY	RDTE/Electronics & Communication Eq-Explor	36

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R-D DESCRIPTION	
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AC62 (CONTINUED)

AURA SYSTEMS	California	NAVY		RDTE/Electronics & Communication Eq-Explor	\$ 48
BALL CORPORATION	Colorado	ARMY NAVY		RDTE/Electronics & Communication Eq-Explor RDTE/Electronics & Communication Eq-Explor	339 176
	STATE TOTAL				515
BELL COMMUNICATIONS RESEARCH	New Jersey	ARMY		RDTE/Electronics & Communication Eq-Explor	450
BOEING AEROSPACE & ELECTRONICS	Washington	ARMY		RDTE/Electronics & Communication Eq-Explor	103
BOEING COMPANY THE	Washington	ARMY		RDTE/Electronics & Communication Eq-Explor	150
BOLT BERANEK & NEWMAN INC	Mass	ARMY USAF		RDTE/Electronics & Communication Eq-Explor RDTE/Electronics & Communication Eq-Explor	13,279 803
	STATE TOTAL				14,082
BOULDER MICROWAVE TECHNOLOGIES	Colorado	NAVY		RDTE/Electronics & Communication Eq-Explor	51
CAD LANGUAGE SYSTEMS INC	Maryland	ARMY		RDTE/Electronics & Communication Eq-Explor	120
CANADIAN COMMERCIAL CORP	CANADA	USAF		RDTE/Electronics & Communication Eq-Explor	360
CHANG INDUSTRY INC	California	ARMY		RDTE/Electronics & Communication Eq-Explor	302
COMMUNICATIONS SATELLITE CORP	Maryland	ARMY		RDTE/Electronics & Communication Eq-Explor	71
COMPACT SOFTWARE INC	New Jersey	ARMY		RDTE/Electronics & Communication Eq-Explor	50
COMPUTER SCIENCES CORPORATION	California	NAVY		RDTE/Electronics & Communication Eq-Explor	2,727
	Florida	USAF		RDTE/Electronics & Communication Eq-Explor	200
	CONTRACTOR TOTAL				2,927
CRYSTALLUME	California	ARMY		RDTE/Electronics & Communication Eq-Explor	50
DAVID SARNOFF RESEARCH CENTER	New Jersey	ARMY		RDTE/Electronics & Communication Eq-Explor	26
DBA SYSTEMS INC	Florida	ARMY		RDTE/Electronics & Communication Eq-Explor	2,777
DCS CORPORATION	Virginia	NAVY		RDTE/Electronics & Communication Eq-Explor	49
DE LORME PUBLISHING COMPANY	Maine	ARMY		RDTE/Electronics & Communication Eq-Explor	103
DELTA INFORMATION SYSTEMS	Penn	NAVY		RDTE/Electronics & Communication Eq-Explor	50

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	-R&L DESCRIPTION-	\$
AC62 (CONTINUED)	DISPLAYTECH INC	Colorado	NAVY	RDTE/Electronics & Communication Eq-Explor	54
	DOW CHEMICAL COMPANY THE	Michigan	ARMY	RDTE/Electronics & Communication Eq-Explor	168
	DREXEL UNIVERSITY	Penn	ARMY	RDTE/Electronics & Communication Eq-Explor	97
	E OIR MEASUREMENTS INC	Virginia	ARMY	RDTE/Electronics & Communication Eq-Explor	1,014
	EATON CORPORATION	New York	ARMY	RDTE/Electronics & Communication Eq-Explor	299
	EDGEWOOD TELESERVICES	New Jersey	NAVY	RDTE/Electronics & Communication Eq-Explor	53
	EESOF INCORPORATED	California	ARMY	RDTE/Electronics & Communication Eq-Explor	75
	ELDYNE INC	California	NAVY	RDTE/Electronics & Communication Eq-Explor	548
	ELECTRO MAGNETIC APPLICATION	Colorado	ARMY	RDTE/Electronics & Communication Eq-Explor	49
	ELECTRO OPTEK CORPORATION	California	NAVY	RDTE/Electronics & Communication Eq-Explor	48
	ELECTRO SYSTEMS INTERNATIONAL	Georgia	USAF	RDTE/Electronics & Communication Eq-Explor	707
	ELECTROMAGNETIC SCIENCES INC	Georgia	NAVY	RDTE/Electronics & Communication Eq-Explor	178
	ELECTRONICS & SPACE CORP	Missouri	ARMY	RDTE/Electronics & Communication Eq-Explor	75
	ELECTROSCAN CORPORATION	Mass	NAVY	RDTE/Electronics & Communication Eq-Explor	355
	EMCORE CORPORATION	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Explor	112
	EMERSON ELECTRIC CO	Missouri	ARMY	RDTE/Electronics & Communication Eq-Explor	90
	EMRC INC	Illinois	ARMY	RDTE/Electronics & Communication Eq-Explor	31
	ENERDYNE TECHNOLOGIES INC	California	NAVY	RDTE/Electronics & Communication Eq-Explor	50
	ENGINEERING & PROF SVCS	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Explor	884
	ENGINEERING SPECIALTIES SERVIC	Mass	ARMY	RDTE/Electronics & Communication Eq-Explor	96
	ENGINEERING TECHNOLOGIES INC	Virginia	NAVY	RDTE/Electronics & Communication Eq-Explor	56
	EON INSTRUMENTATION INC	California	NAVY	RDTE/Electronics & Communication Eq-Explor	39
	EPITAXX INC	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Explor	221
	EPOCH ENGINEERING INC	Maryland	NAVY	RDTE/Electronics & Communication Eq-Explor	250

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AC62 (CONTINUED)

ESL INCORPORATED	California	NAVY	RDTE/Electronics & Communication	Eq-Explor	\$ 1,069
ETEC SYSTEMS INC	California	ARMY	RDTE/Electronics & Communication	Eq-Explor	4,000
EVOLUTIONARY TECHNOLOGIES INC	Texas	NAVY	RDTE/Electronics & Communication	Eq-Explor	50
F & H APPLIED SCIENCES ASSOC	Penn	ARMY	RDTE/Electronics & Communication	Eq-Explor	120
FALON INC	California	NAVY	RDTE/Electronics & Communication	Eq-Explor	238
FELCORP	Florida	ARMY	RDTE/Electronics & Communication	Eq-Explor	50
FIBERTEK INC	Virginia	NAVY	RDTE/Electronics & Communication	Eq-Explor	445
FORCE INC	Virginia	NAVY	RDTE/Electronics & Communication	Eq-Explor	81
FOSTER MILLER INC	Mass	NAVY	RDTE/Electronics & Communication	Eq-Explor	50
FREQUENCY ELECTRONICS INC	New York	ARMY	RDTE/Electronics & Communication	Eq-Explor	250
GENERAL DYNAMICS CORPORATION	California	USAF	RDTE/Electronics & Communication	Eq-Explor	299
GENERAL ELECTRIC COMPANY	New Jersey	NAVY	RDTE/Electronics & Communication	Eq-Explor	108
	New York	ARMY	RDTE/Electronics & Communication	Eq-Explor	415
CONTRACTOR TOTAL					523
GENERAL TECHNICAL SERVICES	Virginia	ARMY	RDTE/Electronics & Communication	Eq-Explor	30
GEO CENTERS INC	Mass	ARMY	RDTE/Electronics & Communication	Eq-Explor	3,281
GEORGE MASON UNIVERSITY	Virginia	ARMY	RDTE/Electronics & Communication	Eq-Explor	95
GEORGIA TECH RESEARCH CORP	Georgia	ARMY	RDTE/Electronics & Communication	Eq-Explor	2,443
	NAVY	NAVY	RDTE/Electronics & Communication	Eq-Explor	110
STATE TOTAL					2,553
GRUMMAN AEROSPACE CORPORATION	New York	NAVY	RDTE/Electronics & Communication	Eq-Explor	187
GTE GOVERNMENT SYSTEMS CORP	Mass	ARMY	RDTE/Electronics & Communication	Eq-Explor	5,128
HARRIS CORPORATION	Florida	NAVY	RDTE/Electronics & Communication	Eq-Explor	150
	USAF	USAF	RDTE/Electronics & Communication	Eq-Explor	2,555
STATE TOTAL					2,705

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## PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

FISCAL YEAR 1991

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	-R&D DESCRIPTION-	\$
AC62 (CONTINUED)					
	HAZELTINE CORPORATION	New York	ARMY	RDTE/Electronics & Communication Eq-Explor	50
	HEWLETT PACKARD COMPANY	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Explor	84
	HITTITE MICROWAVE CORPORATION	Mass	NAVY	RDTE/Electronics & Communication Eq-Explor	100
	HNC INC	California	ARMY	RDTE/Electronics & Communication Eq-Explor	232
	HONEYWELL INC	Minnesota	ARMY	RDTE/Electronics & Communication Eq-Explor	1,148
			NAVY	RDTE/Electronics & Communication Eq-Explor	72
			USAF	RDTE/Electronics & Communication Eq-Explor	209
	STATE TOTAL				1,429
	HUGHES AIRCRAFT COMPANY	California	ARMY	RDTE/Electronics & Communication Eq-Explor	1,274
			NAVY	RDTE/Electronics & Communication Eq-Explor	1,689
	STATE TOTAL				2,963
	INTEGRATED SYSTEMS INC	California	ARMY	RDTE/Electronics & Communication Eq-Explor	310
		Georgia	ARMY	RDTE/Electronics & Communication Eq-Explor	47
	CONTRACTOR TOTAL				357
	INTEL CORPORATION	Oregon	ARMY	RDTE/Electronics & Communication Eq-Explor	2,581
	INTERMETRICS INC	Mass	ARMY	RDTE/Electronics & Communication Eq-Explor	230
	INTERNATIONAL BUS MCHS CORP	California	ARMY	RDTE/Electronics & Communication Eq-Explor	334
		Virginia	NAVY	RDTE/Electronics & Communication Eq-Explor	2,038
	CONTRACTOR TOTAL				2,372
	INTERSPEC INC	Penn	NAVY	RDTE/Electronics & Communication Eq-Explor	110
	IRVINE SENSORS CORPORATION	California	ARMY	RDTE/Electronics & Communication Eq-Explor	200
	ITT & MARTIN MARIETTA JV	Florida	ARMY	RDTE/Electronics & Communication Eq-Explor	15,056
	ITT CORPORATION	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Explor	302
		Penn	ARMY	RDTE/Electronics & Communication Eq-Explor	500
	CONTRACTOR TOTAL				802
	J J M SYSTEMS INC	Penn	NAVY	RDTE/Electronics & Communication Eq-Explor	40

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AC62 (CONTINUED)					
	J R S RESEARCH LABORATORIES	California	ARMY	RDTE/Electronics & Communication Eq-Explor	233
	JTT COMPANY	Florida	ARMY	RDTE/Electronics & Communication Eq-Explor	98
	K M S FUSION INC	Michigan	NAVY	RDTE/Electronics & Communication Eq-Explor	142
	KAMAN SCIENCES CORPORATION	Colorado	ARMY	RDTE/Electronics & Communication Eq-Explor	95
		New York	USAF	RDTE/Electronics & Communication Eq-Explor	350
	CONTRACTOR TOTAL				445
	KDI PRECISION PRODUCTS INC	Ohio	USAF	RDTE/Electronics & Communication Eq-Explor	603
	KOLLMORGEN CORPORATION	Mass	ARMY	RDTE/Electronics & Communication Eq-Explor	102-
	KOPIN CORPORATION	Mass	ARMY	RDTE/Electronics & Communication Eq-Explor	50
	L N R COMMUNICATIONS INC	New York	ARMY	RDTE/Electronics & Communication Eq-Explor	254
	LASER POWER CORP	California	NAVY	RDTE/Electronics & Communication Eq-Explor	50
	LASERGENICS CORPORATION	California	USAF	RDTE/Electronics & Communication Eq-Explor	50
	LITTON SYSTEMS INC	Arizona	NAVY	RDTE/Electronics & Communication Eq-Explor	350
		California	ARMY	RDTE/Electronics & Communication Eq-Explor	645
			NAVY	RDTE/Electronics & Communication Eq-Explor	2,010
	STATE TOTAL				2,655
	CONTRACTOR TOTAL				3,005
	LOCKHEED CORPORATION	California	ARMY	RDTE/Electronics & Communication Eq-Explor	155
		N.H.	NAVY	RDTE/Electronics & Communication Eq-Explor	7,120
	CONTRACTOR TOTAL				7,275
	LOCKHEED MISSILES & SPACE CO	California	ARMY	RDTE/Electronics & Communication Eq-Explor	1,300
	LOCKHEED SANDERS INC	N.H.	NAVY	RDTE/Electronics & Communication Eq-Explor	1,556
	LORAL CORPORATION	Mass	ARMY	RDTE/Electronics & Communication Eq-Explor	155
			NAVY	RDTE/Electronics & Communication Eq-Explor	295
	STATE TOTAL				450

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AC62 (CONTINUED)					
	LOS ALAMOS TECHNICAL ASSOC INC	New Mexico	USAF	RDTE/Electronics & Communication Eq-Explor	\$ 2,128
	M/A COM LASER DIODE INC	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Explor	500
	M/A COM PHI INC	California	ARMY	RDTE/Electronics & Communication Eq-Explor	51
	MAGNAVOX GOVT & INDUSTRL ELCTR	California	ARMY	RDTE/Electronics & Communication Eq-Explor	442
		Indiana	NAVY	RDTE/Electronics & Communication Eq-Explor	708
		Virginia	ARMY	RDTE/Electronics & Communication Eq-Explor	5,284
	CONTRACTOR TOTAL				6,434
	MANDEX INC	Virginia	NAVY	RDTE/Electronics & Communication Eq-Explor	50
	MASSA PRODUCTS CORPORATION	Mass	NAVY	RDTE/Electronics & Communication Eq-Explor	48
	MASSACHSETTS TECHNOLOGICAL LAB	Mass	ARMY	RDTE/Electronics & Communication Eq-Explor	50
	MATERIALS TECHNOLOGIES CORP	Conn	NAVY	RDTE/Electronics & Communication Eq-Explor	50
	MC MAHAN ELECTRO OPTICS INC	N Carolina	USAF	RDTE/Electronics & Communication Eq-Explor	50
	MCDONNELL DOUGLAS CORPORATION	Missouri	NAVY	RDTE/Electronics & Communication Eq-Explor	422
			USAF	RDTE/Electronics & Communication Eq-Explor	422
	STATE TOTAL				987
	MICROSCIENCE INC	Mass	ARMY	RDTE/Electronics & Communication Eq-Explor	200
	MICROWAVE TECHNOLOGY INC	California	NAVY	RDTE/Electronics & Communication Eq-Explor	49
	MVM ELECTRONICS INCORPORATED	Florida	NAVY	RDTE/Electronics & Communication Eq-Explor	140
	NAVCOM DEFENSE ELECTRONICS	California	ARMY	RDTE/Electronics & Communication Eq-Explor	357
	NAVMAR INC	Penn	NAVY	RDTE/Electronics & Communication Eq-Explor	50
	NAVSYS CORP	Colorado	NAVY	RDTE/Electronics & Communication Eq-Explor	599
	NICHOLS RESEARCH CORPORATION	Alabama	USAF	RDTE/Electronics & Communication Eq-Explor	641
	NOISE COM INC	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Explor	50
	NORTH EAST SEMICONDUCTOR INC	New York	ARMY	RDTE/Electronics & Communication Eq-Explor	277
	NORTHROP CORPORATION	Illinois	ARMY	RDTE/Electronics & Communication Eq-Explor	

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/ENTRY	DEPT	R&D DESCRIPTION	\$
AC62 (CONTINUED)					
	OCEAN SYSTEMS RESEARCH INC	Maryland	NAVY	RDTE/Electronics & Communication Eq-Explor	398
	OGDEN CORPORATION	Mass	ARMY	RDTE/Electronics & Communication Eq-Explor	50
	OPTICAL SHIELDS LIMITED	California	ARMY	RDTE/Electronics & Communication Eq-Explor	299
	OPTIVISION INC	California	NAVY	RDTE/Electronics & Communication Eq-Explor	300
	OPTRON SYSTEMS INC	Mass	USAF	RDTE/Electronics & Communication Eq-Explor	48
	ORINCON CORPORATION	California	NAVY	RDTE/Electronics & Communication Eq-Explor	3,938
	PACIFIC MONOLITHICS INC	California	ARMY	RDTE/Electronics & Communication Eq-Explor	498
	PACIFIC SIERRA RESEARCH CORP	California	ARMY	RDTE/Electronics & Communication Eq-Explor	598
			NAVY	RDTE/Electronics & Communication Eq-Explor	924
				STATE TOTAL	1,522
	PAR TECHNOLOGY CORPORATION	New York	ARMY	RDTE/Electronics & Communication Eq-Explor	271
	PENN COMPUTER ASSOCIATES INC	Penn	NAVY	RDTE/Electronics & Communication Eq-Explor	110
	PENNSYLVANIA STATE UNIV INC	Penn	ARMY	RDTE/Electronics & Communication Eq-Explor	200
	PHELAN COMPUTING INC	California	NAVY	RDTE/Electronics & Communication Eq-Explor	1,109
	PHONAN CORP	Conn	ARMY	RDTE/Electronics & Communication Eq-Explor	50
	PHOTONICS SYSTEMS INC	Ohio	ARMY	RDTE/Electronics & Communication Eq-Explor	150
	PHYSICS MATHEMATICS COMPUTER	New Mexico	NAVY	RDTE/Electronics & Communication Eq-Explor	434
	PLANAR SYSTEMS INC	Oregon	ARMY	RDTE/Electronics & Communication Eq-Explor	330
	POLHEMUS NVGTN SCNC INC	Vermont	NAVY	RDTE/Electronics & Communication Eq-Explor	261
	PRAGMATICS INC	Maryland	ARMY	RDTE/Electronics & Communication Eq-Explor	939
	PREDICTION SYSTEMS INC	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Explor	1,028
	QUANTUM MAGNETICS INC	California	ARMY	RDTE/Electronics & Communication Eq-Explor	50
	QUARTZTRONICS INC	Utah	ARMY	RDTE/Electronics & Communication Eq-Explor	110
	RADIX TECHNOLOGIES	California	ARMY	RDTE/Electronics & Communication Eq-Explor	63

## PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AC62 (CONTINUED)					
	RAMSEARCH CO	Maryland	ARMY	RDTE/Electronics & Communication Eq-Explor	125
	RAYOVAC CORPORATION	Wisconsin	ARMY	RDTE/Electronics & Communication Eq-Explor	346
	RAYTHEON COMPANY	California	ARMY	RDTE/Electronics & Communication Eq-Explor	205
		Mass	NAVY	RDTE/Electronics & Communication Eq-Explor	200
			USAF	RDTE/Electronics & Communication Eq-Explor	103
	STATE TOTAL				303
		Rhode Isld	NAVY	RDTE/Electronics & Communication Eq-Explor	372
	CONTRACTOR TOTAL				880
	RECON OPTICAL INC	Illinois	ARMY	RDTE/Electronics & Communication Eq-Explor	247
	REVCO INC	New York	ARMY	RDTE/Electronics & Communication Eq-Explor	300
	ROBERT HECHT	California	NAVY	RDTE/Electronics & Communication Eq-Explor	30
	ROCKWELL INTERNATIONAL CORP	California	NAVY	RDTE/Electronics & Communication Eq-Explor	50
	ROME RESEARCH CORP	New York	NAVY	RDTE/Electronics & Communication Eq-Explor	355
	ROOS INSTRUMENTS	California	ARMY	RDTE/Electronics & Communication Eq-Explor	44
	SAFT AMERICA INC	Maryland	ARMY	RDTE/Electronics & Communication Eq-Explor	1,012
	SAN DIEGO STATE UNIVERSITY FOUN	California	NAVY	RDTE/Electronics & Communication Eq-Explor	531
	SCI TEC INC	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Explor	150
	SCIENCE APPLICATIONS INTL CORP	California	NAVY	RDTE/Electronics & Communication Eq-Explor	94
		Ohio	USAF	RDTE/Electronics & Communication Eq-Explor	825
		Virginia	ARMY	RDTE/Electronics & Communication Eq-Explor	700
			NAVY	RDTE/Electronics & Communication Eq-Explor	302
	STATE TOTAL				1,002
	CONTRACTOR TOTAL				1,921
	SEAY THOMAS S INC	California	ARMY	RDTE/Electronics & Communication Eq-Explor	100
	SEMCOR INC	New Jersey	NAVY	RDTE/Electronics & Communication Eq-Explor	677

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CONTRY	DEPT	R-D DESCRIPTION	
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AC62 (CONTINUED)

CONTRACTOR TOTAL		Penn	NAVY	RDTE/Electronics & Communication Eq-Explor	\$
SIERRA MONOLITHICS INC		California	ARMY	RDTE/Electronics & Communication Eq-Explor	30
SIERRA NEVADA CORPORATION		Nevada	ARMY	RDTE/Electronics & Communication Eq-Explor	707
SILTRONIX INC		California	NAVY	RDTE/Electronics & Communication Eq-Explor	120
SOFTWARE PRODUCTIVITY SOLUTIONS		Florida	ARMY	RDTE/Electronics & Communication Eq-Explor	409
SPARTON CORPORATION		Michigan	NAVY	RDTE/Electronics & Communication Eq-Explor	147
SPECIALTY CABLE CORP		Conn	NAVY	RDTE/Electronics & Communication Eq-Explor	175
SPECTRA DIODE LABORATORIES		California	NAVY	RDTE/Electronics & Communication Eq-Explor	2,268
SPERRY MARINE INC		Virginia	NAVY	RDTE/Electronics & Communication Eq-Explor	30
SPIRE CORPORATION		Mass	ARMY	RDTE/Electronics & Communication Eq-Explor	1,345
SRI INTERNATIONAL		California	ARMY NAVY USAF	RDTE/Electronics & Communication Eq-Explor RDTE/Electronics & Communication Eq-Explor RDTE/Electronics & Communication Eq-Explor	30- 50 726 50 61
STATE TOTAL					
SRS TECHNOLOGIES		Alabama	ARMY	RDTE/Electronics & Communication Eq-Explor	837
STANFORD UNIVERSITY		California	ARMY NAVY	RDTE/Electronics & Communication Eq-Explor RDTE/Electronics & Communication Eq-Explor	49 1,125 3,600
STATE TOTAL					
STEINBRECHER CORP		Mass	ARMY	RDTE/Electronics & Communication Eq-Explor	4,725
SUPERCONDUCTOR TECHNOLOGIES		California	ARMY	RDTE/Electronics & Communication Eq-Explor	50
SYSTEM PLANNING CORPORATION		Virginia	ARMY	RDTE/Electronics & Communication Eq-Explor	250
SYSTEMS & PROCESSES ENGRG CORP		Texas	NAVY	RDTE/Electronics & Communication Eq-Explor	300
SYSTEMS EXPLORATION INC		California	NAVY	RDTE/Electronics & Communication Eq-Explor	50
SYTEX INC		New Jersey	ARMY	RDTE/Electronics & Communication Eq-Explor	1,329
STATE TOTAL					

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	-R&D DESCRIPTION-	\$
AC62 (CONTINUED)					
	SYTORT SYSTEMS INC	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Explor	70
	TACAN CORPORATION	California	ARMY	RDTE/Electronics & Communication Eq-Explor	260
	TECHNOCHEM CO	N Carolina	ARMY	RDTE/Electronics & Communication Eq-Explor	50
	TELECOMMUNICATION SCIENCE ASSOC	California	NAVY	RDTE/Electronics & Communication Eq-Explor	458
	TENCO SERVICES INC	Penn	ARMY	RDTE/Electronics & Communication Eq-Explor	60
	TERA COMPUTER CO	Washington	ARMY	RDTE/Electronics & Communication Eq-Explor	1,500
	TEXAS A & M UNIV SYS THE	Texas	NAVY	RDTE/Electronics & Communication Eq-Explor	1,118
	TEXAS INSTRUMENTS INC	Texas	ARMY NAVY USAF	RDTE/Electronics & Communication Eq-Explor RDTE/Electronics & Communication Eq-Explor RDTE/Electronics & Communication Eq-Explor	5,434 5,189 547
	STATE TOTAL				11,170
	THERMO ELECTRON TECHNOLOGIES CORP	California	ARMY NAVY	RDTE/Electronics & Communication Eq-Explor RDTE/Electronics & Communication Eq-Explor	265 1,176
	STATE TOTAL				1,441
	THINKING MACHINES CORPORATION	Mass	ARMY	RDTE/Electronics & Communication Eq-Explor	2,424
	TITAN SYSTEMS INC	California	NAVY	RDTE/Electronics & Communication Eq-Explor	1,246
	TOOMAY MATHIS & ASSOCIATES	Montana	NAVY	RDTE/Electronics & Communication Eq-Explor	33
	TOYON RESEARCH CORP	California	NAVY	RDTE/Electronics & Communication Eq-Explor	50
	TRACOR AEROSPACE INC	Texas	NAVY	RDTE/Electronics & Communication Eq-Explor	71
	TRIDENT SYSTEMS INC	Virginia	NAVY	RDTE/Electronics & Communication Eq-Explor	50
	TRW INC	California	ARMY NAVY USAF	RDTE/Electronics & Communication Eq-Explor RDTE/Electronics & Communication Eq-Explor RDTE/Electronics & Communication Eq-Explor	18,485 750 286
	STATE TOTAL				19,521
	U T L CORPORATION	Texas	ARMY	RDTE/Electronics & Communication Eq-Explor	130-
	UNITED TECHNOLOGIES CORP	Conn	ARMY	RDTE/Electronics & Communication Eq-Explor	175



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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/ENTRY	DEPT	R&D DESCRIPTION	\$
AC62 (CONTINUED)					
	UNIVERSITY OF ALABAMA	Alabama	USAF	RDTE/Electronics & Communication Eq-Explor	45
	UNIVERSITY OF CALIFORNIA	California	ARMY	RDTE/Electronics & Communication Eq-Explor	322
	UNIVERSITY OF FLORIDA	Florida	ARMY	RDTE/Electronics & Communication Eq-Explor	446
	UNIVERSITY OF SOUTHERN CALIF	California	NAVY	RDTE/Electronics & Communication Eq-Explor	30
	UNIVERSITY OF TEXAS SYSTEM	Texas	ARMY	RDTE/Electronics & Communication Eq-Explor	53
			NAVY	RDTE/Electronics & Communication Eq-Explor	2,146
	STATE TOTAL				2,199
	V L S I TECHNOLOGY INC	California	ARMY	RDTE/Electronics & Communication Eq-Explor	688
	VALIDITY CORPORATION	California	NAVY	RDTE/Electronics & Communication Eq-Explor	39
	VARIAN ASSOCIATES INC	California	ARMY	RDTE/Electronics & Communication Eq-Explor	30
	VISTA RESEARCH	California	NAVY	RDTE/Electronics & Communication Eq-Explor	225
	VITRO CORPORATION	Maryland	ARMY	RDTE/Electronics & Communication Eq-Explor	411
	VITRONICS INC	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Explor	4,648
	VULN & EVAL ASSOC	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Explor	74
	WAGNER DANIEL H ASSOCIATES	Virginia	NAVY	RDTE/Electronics & Communication Eq-Explor	49
	WESTINGHOUSE ELECTRIC CORP	Maryland	NAVY	RDTE/Electronics & Communication Eq-Explor	264
		Ohio	ARMY	RDTE/Electronics & Communication Eq-Explor	250
		Penn	ARMY	RDTE/Electronics & Communication Eq-Explor	47
	CONTRACTOR TOTAL				561
	WHITTAKER CORPORATION	California	ARMY	RDTE/Electronics & Communication Eq-Explor	6,865
	WOOLLAM J A CO	Nebraska	USAF	RDTE/Electronics & Communication Eq-Explor	150
	XMCO INC	Virginia	ARMY	RDTE/Electronics & Communication Eq-Explor	219
	YARDNEY TECHNICAL PRODUCTS	Conn	ARMY	RDTE/Electronics & Communication Eq-Explor	26-
	R&D TOTAL				208,380

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R&D	CONTRACTOR NAME	ST/CONTRY	DEPT	-R&D DESCRIPTION-	\$
AC63	A P A OPTICS INC	Minnesota	USAF	RDTE/Electronics & Communication Eq-Advanc	102
	A V W ELECTRONIC SYSTEMS INC	California	USAF	RDTE/Electronics & Communication Eq-Advanc	284
	ADVANCED DECISION SYSTEMS	California	ARMY	RDTE/Electronics & Communication Eq-Advanc	393
		USAF		RDTE/Electronics & Communication Eq-Advanc	263
	STATE TOTAL				656
	AEL DEFENSE CORP	Penn	ARMY	RDTE/Electronics & Communication Eq-Advanc	653
			NAVY	RDTE/Electronics & Communication Eq-Advanc	120
	STATE TOTAL				773
	AEROVIRONMENT INC	California	NAVY	RDTE/Electronics & Communication Eq-Advanc	786
	ALCOA DEFENSE SYSTEMS INC	California	USAF	RDTE/Electronics & Communication Eq-Advanc	510
	ALLIANT TECHSYSTEMS INC	Minnesota	ARMY	RDTE/Electronics & Communication Eq-Advanc	150
	AMERICAN TELEPHONE & TELG CO	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Advanc	427
		USAF		RDTE/Electronics & Communication Eq-Advanc	1,090
	STATE TOTAL				1,517
	CONTRACTOR TOTAL				16,859
	ANADAC INC	N Carolina	NAVY	RDTE/Electronics & Communication Eq-Advanc	149
	ANALYSIS & COMPUTER SYSTEMS	Penn	USAF	RDTE/Electronics & Communication Eq-Advanc	18,525
	ANALYTIC SCIENCE CORP THE	Maryland	USAF	RDTE/Electronics & Communication Eq-Advanc	150
		Mass	ARMY	RDTE/Electronics & Communication Eq-Advanc	1,266
		Mass	NAVY	RDTE/Electronics & Communication Eq-Advanc	200
		USAF		RDTE/Electronics & Communication Eq-Advanc	1,030
	STATE TOTAL				1,230
	CONTRACTOR TOTAL				297
	APPLIED SCIENCES INC	Ohio	USAF	RDTE/Electronics & Communication Eq-Advanc	1,527
	ATLANTIC RESEARCH CORPORATION	Ohio	NAVY	RDTE/Electronics & Communication Eq-Advanc	219
	AVANTEK INC	Ohio	USAF	RDTE/Electronics & Communication Eq-Advanc	431
	BALL CORPORATION	California	USAF	RDTE/Electronics & Communication Eq-Advanc	225
		Colorado	NAVY	RDTE/Electronics & Communication Eq-Advanc	30

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AC63 (CONTINUED)					
	CONTRACTOR TOTAL				
	BATTELLE MEMORIAL INSTITUTE	Ohio	USAF	RDTE/Electronics & Communication Eq-Advanc	50
	BDM INTERNATIONAL INC	Ohio	USAF	RDTE/Electronics & Communication Eq-Advanc	80
	BOEING COMPANY THE	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Advanc	678
		Kansas	USAF	RDTE/Electronics & Communication Eq-Advanc	590
		Washington	USAF	RDTE/Electronics & Communication Eq-Advanc	1,712
	CONTRACTOR TOTAL				600
	BOOZ ALLEN & HAMILTON INC	Maryland	ARMY	RDTE/Electronics & Communication Eq-Advanc	2,312
		New Jersey	ARMY	RDTE/Electronics & Communication Eq-Advanc	4,806
	CONTRACTOR TOTAL				112
	BOULDER NONLINEAR SYSTEMS INC	Colorado	USAF	RDTE/Electronics & Communication Eq-Advanc	4,918
	BRIMROSE CORP OF AMERICA	Maryland	NAVY	RDTE/Electronics & Communication Eq-Advanc	49
	BRUNSWICK CORPORATION	Virginia	USAF	RDTE/Electronics & Communication Eq-Advanc	250
	C M ENGINEERING CO	New Mexico	USAF	RDTE/Electronics & Communication Eq-Advanc	106
	CALSPAN CORPORATION	New York	USAF	RDTE/Electronics & Communication Eq-Advanc	277
		Ohio	USAF	RDTE/Electronics & Communication Eq-Advanc	1,514
	CONTRACTOR TOTAL				275
	CANADIAN COMMERCIAL CORP	CANADA	ARMY	RDTE/Electronics & Communication Eq-Advanc	1,789
	CINCINNATI ELECTRONICS CORP	Ohio	USAF	RDTE/Electronics & Communication Eq-Advanc	95
	CLEVELAND CRYSTALS INC	Ohio	NAVY	RDTE/Electronics & Communication Eq-Advanc	122
	COHERENT TECHNOLOGIES INC	Colorado	USAF	RDTE/Electronics & Communication Eq-Advanc	125
	COMMAND SYSTEM INC	Indiana	NAVY	RDTE/Electronics & Communication Eq-Advanc	743
	COMPUTER SCIENCES CORPORATION	California	NAVY	RDTE/Electronics & Communication Eq-Advanc	4,981
		Virginia	ARMY	RDTE/Electronics & Communication Eq-Advanc	228
					1,312

## PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

FISCAL YEAR 1991

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AC63 (CONTINUED)					
	CONTRACTOR TOTAL				
	COMPUTER SOFTWARE ANALYSTS	California	NAVY	RDTE/Electronics & Communication Eq-Advanc	1,540
	CONTEL CORPORATION	California	NAVY	RDTE/Electronics & Communication Eq-Advanc	450
	CREARE INC	N.H.	USAF	RDTE/Electronics & Communication Eq-Advanc	423
	DATASONICS INC	Mass	NAVY	RDTE/Electronics & Communication Eq-Advanc	257
	DBA SYSTEMS INC	Florida	ARMY	RDTE/Electronics & Communication Eq-Advanc	168
	DELFIN SYSTEMS	California	USAF	RDTE/Electronics & Communication Eq-Advanc	72
	DIGITAL SYSTEM RESOURCES INC	Virginia	NAVY	RDTE/Electronics & Communication Eq-Advanc	263
	DIGITAL TECHNOLOGY INC	Maryland	NAVY	RDTE/Electronics & Communication Eq-Advanc	49
	DRAPER CHARLES STARK LAB INC	Mass	USAF	RDTE/Electronics & Communication Eq-Advanc	1,150
	E OIR MEASUREMENTS INC	Virginia	USAF	RDTE/Electronics & Communication Eq-Advanc	11,365
	E P E TECHNOLOGIES INC	California	NAVY	RDTE/Electronics & Communication Eq-Advanc	421
	E SYSTEMS INC	Florida	NAVY	RDTE/Electronics & Communication Eq-Advanc	65
	EATON CORPORATION	New York	ARMY USAF	RDTE/Electronics & Communication Eq-Advanc RDTE/Electronics & Communication Eq-Advanc	15,581
	STATE TOTAL				862 650
	ELECTRONIC SYS DEVELOPMENT	Florida	USAF	RDTE/Electronics & Communication Eq-Advanc	1,512
	ENGINEERING & ECONOMICS RES	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Advanc	59
	ENGINEERING & PROF SVCS	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Advanc	463
	ENVIRONMENTAL RES INST OF MICH	Michigan	USAF	RDTE/Electronics & Communication Eq-Advanc	259
	ESL INCORPORATED	California	ARMY	RDTE/Electronics & Communication Eq-Advanc	6,891
	FIBERTEK INC	Virginia	NAVY USAF	RDTE/Electronics & Communication Eq-Advanc RDTE/Electronics & Communication Eq-Advanc	1,895
	STATE TOTAL				271 980
	GATEWAY MODELING INC	Minnesota	USAF	RDTE/Electronics & Communication Eq-Advanc	1,251
					40

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AC63 (CONTINUED)

GEC MARCONI ELECT SYS	New Jersey	ARMY	RDTE/Electronics & Communication	Eq-Advanc	\$ 3,970
GENERAL DYNAMICS CORPORATION	California	USAF	RDTE/Electronics & Communication	Eq-Advanc	3,078
	Michigan	ARMY	RDTE/Electronics & Communication	Eq-Advanc	302
CONTRACTOR TOTAL					3,380
GENERAL ELECTRIC COMPANY	New Jersey	ARMY	RDTE/Electronics & Communication	Eq-Advanc	586
		NAVY	RDTE/Electronics & Communication	Eq-Advanc	35,060
		USAF	RDTE/Electronics & Communication	Eq-Advanc	700
STATE TOTAL					36,346
	New York	ARMY	RDTE/Electronics & Communication	Eq-Advanc	6,919
		NAVY	RDTE/Electronics & Communication	Eq-Advanc	619
		USAF	RDTE/Electronics & Communication	Eq-Advanc	14,533
STATE TOTAL					22,071
CONTRACTOR TOTAL					58,417
GENERAL MOTORS CORPORATION	California	USAF	RDTE/Electronics & Communication	Eq-Advanc	335
GENERAL RESEARCH CORPORATION	California	USAF	RDTE/Electronics & Communication	Eq-Advanc	58
GEORGIA INSTITUTE TECHNOLOGY	Georgia	USAF	RDTE/Electronics & Communication	Eq-Advanc	346
GEORGIA TECH RESEARCH CORP	Georgia	USAF	RDTE/Electronics & Communication	Eq-Advanc	4,252
GOODRICH B F COMPANY THE	Florida	NAVY	RDTE/Electronics & Communication	Eq-Advanc	234
GOULD INC	Ohio	NAVY	RDTE/Electronics & Communication	Eq-Advanc	41
GTE GOVERNMENT SYSTEMS CORP	California	USAF	RDTE/Electronics & Communication	Eq-Advanc	501
HARRIS CORPORATION	Florida	USAF	RDTE/Electronics & Communication	Eq-Advanc	751
	New York	NAVY	RDTE/Electronics & Communication	Eq-Advanc	3,016
CONTRACTOR TOTAL					3,767
HAZELTINE CORPORATION	New York	ARMY	RDTE/Electronics & Communication	Eq-Advanc	83-
		USAF	RDTE/Electronics & Communication	Eq-Advanc	435
STATE TOTAL					352

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R&D	CONTRACTOR NAME	ST/CONTRY	DEPT	R&D DESCRIPTION	\$
AC63 (CONTINUED)					
	HONEYWELL INC	Minnesota	USAF	RDTE/Electronics & Communication Eq-Advanc	300
		New Mexico	ARMY	RDTE/Electronics & Communication Eq-Advanc	6,217
	CONTRACTOR TOTAL				6,517
	HUGHES AIRCRAFT COMPANY	California	ARMY	RDTE/Electronics & Communication Eq-Advanc	4,254
			NAVY	RDTE/Electronics & Communication Eq-Advanc	6,364
			USAF	RDTE/Electronics & Communication Eq-Advanc	27,062
	STATE TOTAL				37,680
		Minnesota	ARMY	RDTE/Electronics & Communication Eq-Advanc	300
		New Mexico	USAF	RDTE/Electronics & Communication Eq-Advanc	295
	CONTRACTOR TOTAL				38,275
	HUGHES DANBURY OPTICAL SYSTEMS	Conn	USAF	RDTE/Electronics & Communication Eq-Advanc	1,607
	INFOTEC DEVELOPMENT INC	California	NAVY	RDTE/Electronics & Communication Eq-Advanc	30
	INNOVATIVE INFORMATION SYS	California	USAF	RDTE/Electronics & Communication Eq-Advanc	1,699
	INSTRUMENTS INC	California	NAVY	RDTE/Electronics & Communication Eq-Advanc	499
	INTEGRATED SYSTEMS ANALYSTS	California	NAVY	RDTE/Electronics & Communication Eq-Advanc	985
	INTEGRITY SYSTEMS INC	Mass	USAF	RDTE/Electronics & Communication Eq-Advanc	449
	INTEGRATED SYS RES CORPORATION	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Advanc	311
	INTERNATIONAL BUS MCHS CORP	New York	ARMY	RDTE/Electronics & Communication Eq-Advanc	7,784
			USAF	RDTE/Electronics & Communication Eq-Advanc	3,389
	STATE TOTAL				11,173
		Virginia	USAF	RDTE/Electronics & Communication Eq-Advanc	3,748
	CONTRACTOR TOTAL				14,921
	INTERNATIONAL TRANSDUCER CORP	California	NAVY	RDTE/Electronics & Communication Eq-Advanc	83
	IRVINE SENSORS CORPORATION	California	USAF	RDTE/Electronics & Communication Eq-Advanc	138
	ITERATED SYSTEMS INCORPORATED	Georgia	NAVY	RDTE/Electronics & Communication Eq-Advanc	48
	ITT CORPORATION	New Jersey	USAF	RDTE/Electronics & Communication Eq-Advanc	319

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CONTRY	DEPT	R-D DESCRIPTION	
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AC63 (CONTINUED)

CONTRACTOR TOTAL					\$	944
KOLLMORGEN CORPORATION	Ohio	USAF	RDTE/Electronics & Communication	Eq-Advanc		
L S I LOGIC CORPORATION	California	ARMY	RDTE/Electronics & Communication	Eq-Advanc	1,263	110
LASER TECHNOLOGY ASSOCIATES	California	NAVY	RDTE/Electronics & Communication	Eq-Advanc		27
LIGHTWAVE ELECTRONICS CORP	New York	ARMY	RDTE/Electronics & Communication	Eq-Advanc		50
LITTON SYSTEMS INC	California	USAF	RDTE/Electronics & Communication	Eq-Advanc		88
LOCKHEED AERONAUTICAL SYS CO	California	USAF	RDTE/Electronics & Communication	Eq-Advanc		800
LOCKHEED MISSILES & SPACE CO	Georgia	USAF	RDTE/Electronics & Communication	Eq-Advanc		71
LOCKHEED SANDERS INC	Texas	ARMY	RDTE/Electronics & Communication	Eq-Advanc		2,402
	N.H.	ARMY	RDTE/Electronics & Communication	Eq-Advanc	13,813	900
		NAVY	RDTE/Electronics & Communication	Eq-Advanc	2,249	
		USAF	RDTE/Electronics & Communication	Eq-Advanc		16,962
STATE TOTAL						
LORAL CORPORATION	Arizona	USAF	RDTE/Electronics & Communication	Eq-Advanc		1,933
	California	NAVY	RDTE/Electronics & Communication	Eq-Advanc	609	
		USAF	RDTE/Electronics & Communication	Eq-Advanc	217	
STATE TOTAL						916
	Mass	NAVY	RDTE/Electronics & Communication	Eq-Advanc	1,500	
		USAF	RDTE/Electronics & Communication	Eq-Advanc	3,529	
STATE TOTAL						5,029
	New York	USAF	RDTE/Electronics & Communication	Eq-Advanc		430
	N Carolina	ARMY	RDTE/Electronics & Communication	Eq-Advanc	16,739	
STATE TOTAL						25,047
CONTRACTOR TOTAL						
M T L SYSTEMS INC	Ohio	USAF	RDTE/Electronics & Communication	Eq-Advanc		290
MAC AULAY BROWN INC	Ohio	USAF	RDTE/Electronics & Communication	Eq-Advanc		1,103
MAGNAVOX GOVT & INDUSTRL ELCTR	Indiana	ARMY	RDTE/Electronics & Communication	Eq-Advanc		2,154

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	--R&D DESCRIPTION--	\$
AC63 (CONTINUED)					
	MALIBU RESEARCH ASSOCIATES				
	MARLOW INDUSTRIES INC				
	MARTIN MARIETTA CORPORATION				
		STATE TOTAL			
		California	USAF	RDTE/Electronics & Communication Eq-Advanc	148
		Texas	ARMY	RDTE/Electronics & Communication Eq-Advanc	332
		Colorado	USAF	RDTE/Electronics & Communication Eq-Advanc	2,632
		Florida	ARMY	RDTE/Electronics & Communication Eq-Advanc	150
			USAF	RDTE/Electronics & Communication Eq-Advanc	800
		STATE TOTAL			2,258
		Maryland	USAF	RDTE/Electronics & Communication Eq-Advanc	95
					2,015
					2,110
					25
					4,393
	CONTRACTOR TOTAL				
	MAYFLOWER COMMUNICATION CORP	Mass	USAF	RDTE/Electronics & Communication Eq-Advanc	399
	MCDONNELL AIRCRAFT COMPANY	Missouri	USAF	RDTE/Electronics & Communication Eq-Advanc	761
	MCDONNELL DOUGLAS CORPORATION	Missouri	USAF	RDTE/Electronics & Communication Eq-Advanc	476
	MCDONNELL DOUGLAS SPACE SYS CO	California	NAVY	RDTE/Electronics & Communication Eq-Advanc	2,313
	MERCER UNIVERSITY	Georgia	USAF	RDTE/Electronics & Communication Eq-Advanc	100
	MERIT TECHNOLOGY INC	Ohio	USAF	RDTE/Electronics & Communication Eq-Advanc	174
	METRATEK INC	Virginia	NAVY	RDTE/Electronics & Communication Eq-Advanc	60
	MICROWAVE MODULES & DEVICES	California	USAF	RDTE/Electronics & Communication Eq-Advanc	27
	MICROWAVE TECHNOLOGY INC	California	USAF	RDTE/Electronics & Communication Eq-Advanc	68
	MOTOROLA INC	Arizona	USAF	RDTE/Electronics & Communication Eq-Advanc	800
		Maryland	ARMY	RDTE/Electronics & Communication Eq-Advanc	80
					880
	CONTRACTOR TOTAL				
	NAVCOM DEFENSE ELECTRONICS	California	NAVY	RDTE/Electronics & Communication Eq-Advanc	380
	NICHOLS RESEARCH CORPORATION	Alabama	USAF	RDTE/Electronics & Communication Eq-Advanc	216

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION		
AC63 (CONTINUED)						
CONTRACTOR TOTAL						
NORTHROP CORPORATION	Michigan	USAF	RDTE/Electronics & Communication	Eq-Advanc	\$	80
	California	ARMY USAF	RDTE/Electronics & Communication RDTE/Electronics & Communication	Eq-Advanc Eq-Advanc		296 3,994 6,181
	STATE TOTAL					10,175
	Illinois	USAF	RDTE/Electronics & Communication	Eq-Advanc		110
CONTRACTOR TOTAL						
OCEAN REMOTE SENSING & ENGRG	California	NAVY	RDTE/Electronics & Communication	Eq-Advanc		10,285
	Ohio	USAF	RDTE/Electronics & Communication	Eq-Advanc		250
	California	NAVY	RDTE/Electronics & Communication	Eq-Advanc		156
	California	ARMY NAVY	RDTE/Electronics & Communication RDTE/Electronics & Communication	Eq-Advanc Eq-Advanc		170 1,986 69
STATE TOTAL						2,055
PLANNING SYSTEMS INCORPORATED	Maryland	NAVY	RDTE/Electronics & Communication	Eq-Advanc		644
	Maryland	NAVY	RDTE/Electronics & Communication	Eq-Advanc		760
	Conn	USAF	RDTE/Electronics & Communication	Eq-Advanc		250
	California	NAVY USAF	RDTE/Electronics & Communication RDTE/Electronics & Communication	Eq-Advanc Eq-Advanc		151 1,000
STATE TOTAL						1,151
QUANTEL INTERNATIONAL INC	California	ARMY	RDTE/Electronics & Communication	Eq-Advanc		46
	Ohio	USAF	RDTE/Electronics & Communication	Eq-Advanc		1,291
	New Mexico	USAF	RDTE/Electronics & Communication	Eq-Advanc		1,819
	California	NAVY	RDTE/Electronics & Communication	Eq-Advanc		85
RACAL RECORDERS INC	California	NAVY	RDTE/Electronics & Communication	Eq-Advanc		1,237
	California	USAF	RDTE/Electronics & Communication	Eq-Advanc		1,400
	STATE TOTAL					
	QUESTECH INC	California	ARMY	RDTE/Electronics & Communication	Eq-Advanc	
Ohio		USAF	RDTE/Electronics & Communication	Eq-Advanc		1,291
New Mexico		USAF	RDTE/Electronics & Communication	Eq-Advanc		1,819
California		NAVY	RDTE/Electronics & Communication	Eq-Advanc		85
RADIANT CORPORATION	California	NAVY	RDTE/Electronics & Communication	Eq-Advanc		1,237
	California	USAF	RDTE/Electronics & Communication	Eq-Advanc		1,400
	STATE TOTAL					
	RAYTHEON COMPANY	California	ARMY	RDTE/Electronics & Communication	Eq-Advanc	
Ohio		USAF	RDTE/Electronics & Communication	Eq-Advanc		1,291
New Mexico		USAF	RDTE/Electronics & Communication	Eq-Advanc		1,819
California		NAVY	RDTE/Electronics & Communication	Eq-Advanc		85

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AC63 (CONTINUED)					
	CONTRACTOR TOTAL				
	RECON OPTICAL INC	Maryland	USAF	RDTE/Electronics & Communication Eq-Advanc	51
		Mass	NAVY USAF	RDTE/Electronics & Communication Eq-Advanc RDTE/Electronics & Communication Eq-Advanc	2,512 5,014
		STATE TOTAL			7,526
		New York	ARMY	RDTE/Electronics & Communication Eq-Advanc	96
		Rhode Isld	NAVY	RDTE/Electronics & Communication Eq-Advanc	1,062
	CONTRACTOR TOTAL				10,135
	ROCKWELL INTERNATIONAL CORP	Illinois	ARMY	RDTE/Electronics & Communication Eq-Advanc	585
		California	ARMY NAVY USAF	RDTE/Electronics & Communication Eq-Advanc RDTE/Electronics & Communication Eq-Advanc RDTE/Electronics & Communication Eq-Advanc	5,351 1,500 1,047
		STATE TOTAL			7,898
	SCI TEC INC	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Advanc	789
	SCIENCE APPLICATIONS INTL CORP	California	ARMY NAVY	RDTE/Electronics & Communication Eq-Advanc RDTE/Electronics & Communication Eq-Advanc	42 6,804
		STATE TOTAL			6,846
		Ohio	USAF	RDTE/Electronics & Communication Eq-Advanc	1,351
		Virginia	NAVY USAF	RDTE/Electronics & Communication Eq-Advanc RDTE/Electronics & Communication Eq-Advanc	843 1,098
		STATE TOTAL			1,941
	CONTRACTOR TOTAL				10,138
	SCOPE INCORPORATED	Virginia	USAF	RDTE/Electronics & Communication Eq-Advanc	672
	SEMCOR INC	Penn	NAVY	RDTE/Electronics & Communication Eq-Advanc	277
	SENSCI CORP	Virginia	USAF	RDTE/Electronics & Communication Eq-Advanc	216
	SILHOUETTE TECHNOLOGY INC	New Jersey	NAVY	RDTE/Electronics & Communication Eq-Advanc	50
	SIXD B CORP	Maryland	NAVY	RDTE/Electronics & Communication Eq-Advanc	284

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AC63 (CONTINUED)					
	SOFTECH INC	Ohio	USAF	RDTE/Electronics & Communication Eq-Advanc	\$ 160
		Texas	USAF	RDTE/Electronics & Communication Eq-Advanc	600
	CONTRACTOR TOTAL				760
	SOFTWARE SYSTEMS ENGINEERING	California	ARMY	RDTE/Electronics & Communication Eq-Advanc	83
	SPARTON CORPORATION	Michigan	NAVY	RDTE/Electronics & Communication Eq-Advanc	3,100
	SPECTRA TECHNOLOGY INC	Washington	NAVY	RDTE/Electronics & Communication Eq-Advanc	293
			USAF	RDTE/Electronics & Communication Eq-Advanc	485
	STATE TOTAL				778
	SPECTRUM SIGNAL PROCESSING INC	Mass	NAVY	RDTE/Electronics & Communication Eq-Advanc	51
	SRI INTERNATIONAL	California	ARMY	RDTE/Electronics & Communication Eq-Advanc	1,212
	SYRACUSE UNIVERSITY	New York	NAVY	RDTE/Electronics & Communication Eq-Advanc	40
	SYSTRAN CORP	Ohio	USAF	RDTE/Electronics & Communication Eq-Advanc	52
	TAU CORPORATION	California	USAF	RDTE/Electronics & Communication Eq-Advanc	304
	TECHNICAL SERVICES LABORATORY	Florida	NAVY	RDTE/Electronics & Communication Eq-Advanc	31
	TEKTRONIX INC	Oregon	ARMY	RDTE/Electronics & Communication Eq-Advanc	955
	TELECOMMUNICATION SCIENCE ASSOC	California	NAVY	RDTE/Electronics & Communication Eq-Advanc	50
	TERRA TEK INC	Utah	NAVY	RDTE/Electronics & Communication Eq-Advanc	60
	TEXAS INSTRUMENTS INC	Texas	ARMY	RDTE/Electronics & Communication Eq-Advanc	851
			NAVY	RDTE/Electronics & Communication Eq-Advanc	500
			USAF	RDTE/Electronics & Communication Eq-Advanc	1,147
	STATE TOTAL				2,498
	TEXCOM INC	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Advanc	1,561
	TRACOR AEROSPACE INC	Texas	USAF	RDTE/Electronics & Communication Eq-Advanc	463
	TRW INC	California	USAF	RDTE/Electronics & Communication Eq-Advanc	2,792
		Ohio	USAF	RDTE/Electronics & Communication Eq-Advanc	3,460

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AC63	(CONTINUED)				

CONTRACTOR TOTAL					\$	
UNISYS CORPORATION	Utah	USAF	RDTE/Electronics & Communication Eq-Advanc			6,252
UNISYS DEFENSE SYSTEMS INC	New York	ARMY USAF	RDTE/Electronics & Communication Eq-Advanc RDTE/Electronics & Communication Eq-Advanc			2,220 828 333-
STATE TOTAL						495
CONTRACTOR TOTAL	Utah	USAF	RDTE/Electronics & Communication Eq-Advanc			50
UNITED TECHNOLOGIES CORP	Florida	USAF	RDTE/Electronics & Communication Eq-Advanc			545
VEDA INCORPORATED	Ohio	USAF	RDTE/Electronics & Communication Eq-Advanc			960
VIASAT INC	California	NAVY	RDTE/Electronics & Communication Eq-Advanc			1,403
WESTINGHOUSE ELECTRIC CORP	Maryland	ARMY USAF	RDTE/Electronics & Communication Eq-Advanc RDTE/Electronics & Communication Eq-Advanc			411 29,297 3,083
STATE TOTAL						32,380
CONTRACTOR TOTAL	Penn	USAF	RDTE/Electronics & Communication Eq-Advanc			113
WRIGHT STATE UNIVERSITY	Ohio	USAF	RDTE/Electronics & Communication Eq-Advanc			32,493
XETRON CORPORATION	Ohio	ARMY	RDTE/Electronics & Communication Eq-Advanc			240
R&D TOTAL						2,600
AC64 3 DBM ELECTRONIC CORP	California	USAF	RDTE/Electronics & Communication Eq-Engr D			400,525
A A I CORPORATION	Maryland	USAF	RDTE/Electronics & Communication Eq-Engr D			50-
ADVANCED COMMUNICATIONS SYSTEMS	Virginia	NAVY	RDTE/Electronics & Communication Eq-Engr D			160
ADVANCED SYSTEMS DEVELOPMENT	New York	USAF	RDTE/Electronics & Communication Eq-Engr D			42
AERODYNE RESEARCH INC	Mass	USAF	RDTE/Electronics & Communication Eq-Engr D			1,337
AHNTech INC	California	NAVY	RDTE/Electronics & Communication Eq-Engr D			100
ALLIANT TECHSYSTEMS INC	Colorado	NAVY	RDTE/Electronics & Communication Eq-Engr D			211
						52

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	-R&D DESCRIPTION-	\$
AC64 (CONTINUED)					
	CONTRACTOR TOTAL				
	ALLIED SIGNAL AEROSPACE CO	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Engr D	110
		Florida	NAVY	RDTE/Electronics & Communication Eq-Engr D	162
		Maryland	NAVY	RDTE/Electronics & Communication Eq-Engr D	179
			USAF	RDTE/Electronics & Communication Eq-Engr D	2,401
					27,333
	STATE TOTAL				29,734
	CONTRACTOR TOTAL				29,913
	AMERICAN SYSTEMS CORPORATION	Virginia	USAF	RDTE/Electronics & Communication Eq-Engr D	1,086
	AMERICAN TELEPHONE & TELG CO	New Jersey	NAVY	RDTE/Electronics & Communication Eq-Engr D	5,772
		N Carolina	NAVY	RDTE/Electronics & Communication Eq-Engr D	129,232
	CONTRACTOR TOTAL				135,004
	ANALOGIC CORPORATION	Mass	NAVY	RDTE/Electronics & Communication Eq-Engr D	66
	ANALYSIS & COMPUTER SYSTEMS	Mass	USAF	RDTE/Electronics & Communication Eq-Engr D	1,796
	ANALYSIS & TECHNOLOGY INC	Conn	NAVY	RDTE/Electronics & Communication Eq-Engr D	74
	ANALYTIC SCIENCE CORP THE	Mass	USAF	RDTE/Electronics & Communication Eq-Engr D	300
	ANDRULIS RESEARCH CORP	Maryland	NAVY	RDTE/Electronics & Communication Eq-Engr D	2,587
	APPLICATIONS RESEARCH CORP	Ohio	USAF	RDTE/Electronics & Communication Eq-Engr D	259-
	APPLIED SIGNAL TECHNOLOGY INC	California	ARMY	RDTE/Electronics & Communication Eq-Engr D	363
	ATEAM CORP	Ohio	USAF	RDTE/Electronics & Communication Eq-Engr D	2,255
	BOEING AEROSPACE & ELECTRONICS	Washington	NAVY	RDTE/Electronics & Communication Eq-Engr D	3,980
			USAF	RDTE/Electronics & Communication Eq-Engr D	56,127
	STATE TOTAL				60,107
	CONTRACTOR TOTAL				2,512
	BOEING COMPANY THE	Kansas	USAF	RDTE/Electronics & Communication Eq-Engr D	300
		Washington	USAF	RDTE/Electronics & Communication Eq-Engr D	2,812
	CONTRACTOR TOTAL				

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AC64 (CONTINUED)					
	BOLT BERANEK & NEWMAN INC	Mass	NAVY	RDTE/Electronics & Communication Eq-Engr D	348
	BOOZ ALLEN & HAMILTON INC	Maryland	NAVY	RDTE/Electronics & Communication Eq-Engr D	90
		New Jersey	ARMY	RDTE/Electronics & Communication Eq-Engr D	50
	CONTRACTOR TOTAL				140
	BOSE CORPORATION	Mass	USAF	RDTE/Electronics & Communication Eq-Engr D	1,343
	BTG INC	Virginia	NAVY	RDTE/Electronics & Communication Eq-Engr D	996
	C T S CORPORATION	Indiana	NAVY	RDTE/Electronics & Communication Eq-Engr D	800
	CACI INC	Maryland	NAVY	RDTE/Electronics & Communication Eq-Engr D	789
	CACI INTERNATIONAL INC	Maryland	NAVY	RDTE/Electronics & Communication Eq-Engr D	208
	CALSPAN CORPORATION	New York	USAF	RDTE/Electronics & Communication Eq-Engr D	15,483
	CANADIAN COMMERCIAL CORP	CANADA	USAF	RDTE/Electronics & Communication Eq-Engr D	8,232
	CANADIAN MARCONI COMPANY	CANADA	USAF	RDTE/Electronics & Communication Eq-Engr D	4,829
	COLEMAN RESEARCH CORPORATION	Florida	NAVY	RDTE/Electronics & Communication Eq-Engr D	50
	COLLINS INTERNATIONAL SVC CO	Iowa	USAF	RDTE/Electronics & Communication Eq-Engr D	28,878
	COMARCO INC	Arizona	ARMY	RDTE/Electronics & Communication Eq-Engr D	7,304
	COMBUSTION ENGINEERING INC	Arizona	ARMY	RDTE/Electronics & Communication Eq-Engr D	2,344
	COMMAND CTRL COMMUNICATIONS CORP	California	USAF	RDTE/Electronics & Communication Eq-Engr D	84
	COMPUTER SCIENCES CORPORATION	California	NAVY	RDTE/Electronics & Communication Eq-Engr D	1,958
		New Jersey	USAF	RDTE/Electronics & Communication Eq-Engr D	14,393
	CONTRACTOR TOTAL				16,351
	CONTEL CORPORATION	Colorado	USAF	RDTE/Electronics & Communication Eq-Engr D	1,499
		Virginia	USAF	RDTE/Electronics & Communication Eq-Engr D	1,279
	CONTRACTOR TOTAL				2,778
	CONTRAVES USA INC	Penn	NAVY	RDTE/Electronics & Communication Eq-Engr D	49
	CONTROL DATA CANADA LTD	CANADA	USAF	RDTE/Electronics & Communication Eq-Engr D	237-

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AC64 (CONTINUED)

CONTROL DATA CORPORATION	Minnesota	ARMY NAVY	RDTE/Electronics & Communication Eq-Engr D RDTE/Electronics & Communication Eq-Engr D	\$	1,933 5,168 7,101
STATE TOTAL					
CUBIC CORPORATION	California	NAVY	RDTE/Electronics & Communication Eq-Engr D		872
DATA DECISIONS INC	D.C.	NAVY	RDTE/Electronics & Communication Eq-Engr D		270
DCS CORPORATION	Virginia	NAVY	RDTE/Electronics & Communication Eq-Engr D		425
DIGITAL EQUIPMENT CORPORATION	Ohio	USAF	RDTE/Electronics & Communication Eq-Engr D		2,199
DIGITAL WIZARDS INC	California	NAVY	RDTE/Electronics & Communication Eq-Engr D		2,265
DIVERSIFIED ENGINEERING INC	Virginia	USAF	RDTE/Electronics & Communication Eq-Engr D		651
DOWDY DEFENSE & AIR SYSTEMS LT	UNITED KIN	NAVY	RDTE/Electronics & Communication Eq-Engr D		49
DRAPEY CHARLES STARK LAB INC	Mass	USAF	RDTE/Electronics & Communication Eq-Engr D		693
DYNAMIC CONTROLS CORPORATION	Conn	USAF	RDTE/Electronics & Communication Eq-Engr D		83
E SYSTEMS INC	Florida	USAF	RDTE/Electronics & Communication Eq-Engr D		9,981
	Utah	NAVY	RDTE/Electronics & Communication Eq-Engr D		50
	Virginia	NAVY	RDTE/Electronics & Communication Eq-Engr D		57
CONTRACTOR TOTAL					
EASTMAN KODAK COMPANY	New York	ARMY	RDTE/Electronics & Communication Eq-Engr D		10,088
EATON CORPORATION	New York	USAF	RDTE/Electronics & Communication Eq-Engr D		165
ECONOMICS TECHNOLOGY ASSOC	California	NAVY	RDTE/Electronics & Communication Eq-Engr D		42,317-
EDO WESTERN CORPORATION	Utah	NAVY	RDTE/Electronics & Communication Eq-Engr D		95
ELDYNE INC	California	NAVY	RDTE/Electronics & Communication Eq-Engr D		478
ELECTRO RADIATION INC	New Jersey	USAF	RDTE/Electronics & Communication Eq-Engr D		250
ELECTROSPACE SYSTEMS INC	California	NAVY	RDTE/Electronics & Communication Eq-Engr D		765
ENGINEERING TECHNOLOGIES INC	Virginia	NAVY	RDTE/Electronics & Communication Eq-Engr D		91
					617

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AC64 (CONTINUED)

ERC INTERNATIONAL INC	California	NAVY	RDTE/Electronics & Communication	Eq-Engr D	\$ 2,268
ESL INCORPORATED	California	ARMY	RDTE/Electronics & Communication	Eq-Engr D	362
FORCE COMPUTERS INC	California	NAVY	RDTE/Electronics & Communication	Eq-Engr D	75
GALAXY SCIENTIFIC CORP	California	NAVY	RDTE/Electronics & Communication	Eq-Engr D	100
	Penn	NAVY	RDTE/Electronics & Communication	Eq-Engr D	416
CONTRACTOR TOTAL					516
GEC MARCONI ELECT SYS	New Jersey	ARMY USAF	RDTE/Electronics & Communication RDTE/Electronics & Communication	Eq-Engr D Eq-Engr D	1,532 34,216
	STATE TOTAL				65,748
GENERAL DYNAMICS CORPORATION	Texas	USAF	RDTE/Electronics & Communication	Eq-Engr D	32,899
GENERAL ELECTRIC COMPANY	New Jersey	NAVY USAF	RDTE/Electronics & Communication RDTE/Electronics & Communication	Eq-Engr D Eq-Engr D	1,057 1,536-
	STATE TOTAL				479-
CONTRACTOR TOTAL	New York	NAVY	RDTE/Electronics & Communication	Eq-Engr D	23,741
GENERAL ELECTRONIC SYSTEMS	Virginia	ARMY	RDTE/Electronics & Communication	Eq-Engr D	23,262
GEORGIA TECH RESEARCH CORP	Georgia	ARMY USAF	RDTE/Electronics & Communication RDTE/Electronics & Communication	Eq-Engr D Eq-Engr D	51 1,759 448
	STATE TOTAL				2,207
GRUMMAN AEROSPACE CORPORATION	New York	NAVY USAF	RDTE/Electronics & Communication RDTE/Electronics & Communication	Eq-Engr D Eq-Engr D	12,673 266,009
	STATE TOTAL				278,682
GRUMMAN DATA SYSTEMS CORP	Virginia	NAVY	RDTE/Electronics & Communication	Eq-Engr D	1,629
GTE INTERNATIONAL INC	Mass	USAF	RDTE/Electronics & Communication	Eq-Engr D	55
HARRIS CORPORATION	Florida	NAVY USAF	RDTE/Electronics & Communication RDTE/Electronics & Communication	Eq-Engr D Eq-Engr D	52 755

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION
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AC64 (CONTINUED)

HAZELTINE CORPORATION		STATE TOTAL	\$	807
HOPKINS SOFTWARE	Mass	NAVY	RDTE/Electronics & Communication Eq-Engr D	1,031
HUGHES AIRCRAFT COMPANY	California	NAVY	RDTE/Electronics & Communication Eq-Engr D	50
	California	ARMY	RDTE/Electronics & Communication Eq-Engr D	8,883
		NAVY	RDTE/Electronics & Communication Eq-Engr D	37,503
		USAF	RDTE/Electronics & Communication Eq-Engr D	1,724
	STATE TOTAL			48,110
	Minnesota	ARMY	RDTE/Electronics & Communication Eq-Engr D	2,815
				50,925
CONTRACTOR TOTAL				
ILLGEN SIMULATION TECHNOLOGIES	Florida	USAF	RDTE/Electronics & Communication Eq-Engr D	648
ILLINOIS INST OF TECHNOLOGY	Illinois	NAVY	RDTE/Electronics & Communication Eq-Engr D	8,967
INNERSPACE TECHNOLOGY INC	New Jersey	NAVY	RDTE/Electronics & Communication Eq-Engr D	121
INTEL CORPORATION	Oregon	NAVY	RDTE/Electronics & Communication Eq-Engr D	404
INTERMETRICS INC	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Engr D	1,318
	Penn	NAVY	RDTE/Electronics & Communication Eq-Engr D	3,464
				4,782
	New York	ARMY	RDTE/Electronics & Communication Eq-Engr D	134
	Tennessee	NAVY	RDTE/Electronics & Communication Eq-Engr D	35-
	Virginia	NAVY	RDTE/Electronics & Communication Eq-Engr D	15,645
				15,744
	California	USAF	RDTE/Electronics & Communication Eq-Engr D	9,547
	ISRAEL	NAVY	RDTE/Electronics & Communication Eq-Engr D	16,908
	Indiana	ARMY	RDTE/Electronics & Communication Eq-Engr D	200
	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Engr D	9,113
	S ARABIA	ARMY	RDTE/Electronics & Communication Eq-Engr D	173
CONTRACTOR TOTAL				
INTERSTATE ELECTRONICS CORP				
ISRAEL AIRCRAFT INDUSTRIES LTD				
ITT CORPORATION				

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AC64 (CONTINUED)

## CONTRACTOR TOTAL

JOHNS HOPKINS UNIVERSITY	Maryland	NAVY	RDTE/Electronics & Communication Eq-Engr D	\$	9,486
KEARFOTT GDNCE NAVIGATION CORP	Mass	USAF	RDTE/Electronics & Communication Eq-Engr D		38,050
	New Jersey	NAVY	RDTE/Electronics & Communication Eq-Engr D		202
		USAF	RDTE/Electronics & Communication Eq-Engr D		5,887
			RDTE/Electronics & Communication Eq-Engr D		11,249
					17,136
	STATE TOTAL				17,338

## CONTRACTOR TOTAL

KETRON INC	Penn	USAF	RDTE/Electronics & Communication Eq-Engr D		300
LITTON SYSTEMS INC	California	ARMY	RDTE/Electronics & Communication Eq-Engr D		1,249
		NAVY	RDTE/Electronics & Communication Eq-Engr D		106
	STATE TOTAL				1,355

## CONTRACTOR TOTAL

LOCKHEED CORPORATION	N.H.	USAF	RDTE/Electronics & Communication Eq-Engr D		808
LOCKHEED MISSILES & SPACE CO	Texas	NAVY	RDTE/Electronics & Communication Eq-Engr D		23,997
LOCKHEED SANDERS INC	N.H.	NAVY	RDTE/Electronics & Communication Eq-Engr D		7,774
		USAF	RDTE/Electronics & Communication Eq-Engr D		150
	STATE TOTAL				7,924

## CONTRACTOR TOTAL

LOGIMETRICS INC DEL	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Engr D		30-
LORAL CORPORATION	New York	NAVY	RDTE/Electronics & Communication Eq-Engr D		7,894
	California	ARMY	RDTE/Electronics & Communication Eq-Engr D		58
		USAF	RDTE/Electronics & Communication Eq-Engr D		327
	STATE TOTAL				100
					427

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R&D	CONTRACTOR NAME	ST/CONTRY	DEPT	R&D DESCRIPTION	\$
AC64 (CONTINUED)					
	CONTRACTOR TOTAL				
	LTV AEROSPACE & DEFENSE CO	Colorado	USAF	RDTE/Electronics & Communication Eq-Engr D	21,892
		New York	USAF	RDTE/Electronics & Communication Eq-Engr D	3,388
		Penn	ARMY	RDTE/Electronics & Communication Eq-Engr D	683
	CONTRACTOR TOTAL				26,390
	LTV AEROSPACE & DEFENSE CO	New York	USAF	RDTE/Electronics & Communication Eq-Engr D	1,316
		Texas	USAF	RDTE/Electronics & Communication Eq-Engr D	25
	CONTRACTOR TOTAL				1,341
	MAC AULAY BROWN INC	Ohio	USAF	RDTE/Electronics & Communication Eq-Engr D	243
	MAGNAVOX GOVT & INDUSTRL ELCTR	California	ARMY	RDTE/Electronics & Communication Eq-Engr D	13,125
		Indiana	NAVY	RDTE/Electronics & Communication Eq-Engr D	5,592
		USAF	RDTE/Electronics & Communication Eq-Engr D	3,004-	
	STATE TOTAL				2,588
	CONTRACTOR TOTAL				15,713
	MARTIN MARIETTA CORPORATION	Colorado	ARMY	RDTE/Electronics & Communication Eq-Engr D	8-
		Florida	ARMY	RDTE/Electronics & Communication Eq-Engr D	2,824
		Maryland	NAVY	RDTE/Electronics & Communication Eq-Engr D	21,052
	CONTRACTOR TOTAL				23,868
	MCDONNELL DOUGLAS CORPORATION	Missouri	NAVY	RDTE/Electronics & Communication Eq-Engr D	1,389
		USAF	RDTE/Electronics & Communication Eq-Engr D	11,264	
	STATE TOTAL				12,653
	MERCER UNIVERSITY	Georgia	USAF	RDTE/Electronics & Communication Eq-Engr D	50
	METRIC SYSTEMS CORPORATION	Florida	USAF	RDTE/Electronics & Communication Eq-Engr D	39-
	METTERS INDUSTRIES INC	Virginia	NAVY	RDTE/Electronics & Communication Eq-Engr D	50
	MICHIGAN STATE UNIVERSITY	Michigan	USAF	RDTE/Electronics & Communication Eq-Engr D	110
	MICRO COMPUTER SYSTEM INC	Maryland	NAVY	RDTE/Electronics & Communication Eq-Engr D	198
	MOTOROLA INC	Arizona	ARMY	RDTE/Electronics & Communication Eq-Engr D	2,238

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AC64 (CONTINUED)					
	NATIONS INC	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Engr D	243
	NAVCOM DEFENSE ELECTRONICS	California	USAF	RDTE/Electronics & Communication Eq-Engr D	2,481
	NORTHROP CORPORATION	Illinois	USAF	RDTE/Electronics & Communication Eq-Engr D	1,186
	NUCLEAR RESEARCH CORPORATION	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Engr D	27-
	OMNIBYTE CORPORATION	Illinois	NAVY	RDTE/Electronics & Communication Eq-Engr D	4,476
	OPTIC ELECTRONIC CORP	Texas	ARMY	RDTE/Electronics & Communication Eq-Engr D	293
	OSBORNE ALLEN ASSOCIATES	California	NAVY	RDTE/Electronics & Communication Eq-Engr D	26
	P R B ASSOCIATES INC	Maryland	NAVY	RDTE/Electronics & Communication Eq-Engr D	2,864
	PACIFIC RIM ENGINEERING	California	NAVY	RDTE/Electronics & Communication Eq-Engr D	50
	PENNSYLVANIA STATE UNIV INC	Penn	ARMY NAVY	RDTE/Electronics & Communication Eq-Engr D RDTE/Electronics & Communication Eq-Engr D	235 49 150 3,547 3,697
	POLYMICRO TECHNOLOGIES INC	Arizona	NAVY	RDTE/Electronics & Communication Eq-Engr D	48
	PRC INC	California	NAVY	RDTE/Electronics & Communication Eq-Engr D	2,605
		Penn	NAVY	RDTE/Electronics & Communication Eq-Engr D	508
	CONTRACTOR TOTAL				3,113
	PREDICTION SYSTEMS INC	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Engr D	1,138
	PRESEARCH INCORPORATED	Virginia	NAVY	RDTE/Electronics & Communication Eq-Engr D	147
	QUESTECH INC	Ohio	USAF	RDTE/Electronics & Communication Eq-Engr D	250
	R J O ENTERPRISES INC	Maryland	NAVY	RDTE/Electronics & Communication Eq-Engr D	1,000
	RAYTHEON COMPANY	California	NAVY USAF	RDTE/Electronics & Communication Eq-Engr D RDTE/Electronics & Communication Eq-Engr D	415 753
	STATE TOTAL				1,168

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AC64 (CONTINUED)					
	CONTRACTOR TOTAL				
	REINHART & ASSOCIATES INC	Mass	NAVY	RDTE/Electronics & Communication Eq-Engr D	25,206
			USAF	RDTE/Electronics & Communication Eq-Engr D	43,365
	ROCKWELL INTERNATIONAL CORP	Rhode Isld	NAVY	RDTE/Electronics & Communication Eq-Engr D	68,571
					18,620
					88,359
	CONTRACTOR TOTAL				50
	SABTECH INDUSTRIES	Texas	NAVY	RDTE/Electronics & Communication Eq-Engr D	495
	SCIENCE APPLICATIONS INTL CORP	California	USAF	RDTE/Electronics & Communication Eq-Engr D	1,064
		Iowa	NAVY	RDTE/Electronics & Communication Eq-Engr D	1,559
					40
		California	NAVY	RDTE/Electronics & Communication Eq-Engr D	4,256
		Ohio	USAF	RDTE/Electronics & Communication Eq-Engr D	1,479
		Virginia	NAVY	RDTE/Electronics & Communication Eq-Engr D	647
	CONTRACTOR TOTAL				6,382
	SCOPE INCORPORATED	Virginia	NAVY	RDTE/Electronics & Communication Eq-Engr D	104
	SEMCOR INC	California	NAVY	RDTE/Electronics & Communication Eq-Engr D	184
		New Jersey	NAVY	RDTE/Electronics & Communication Eq-Engr D	579
	CONTRACTOR TOTAL				763
	SEQUENTIAL INFORMATION SYSTEMS	New York	USAF	RDTE/Electronics & Communication Eq-Engr D	299
	SIERRA NEVADA CORPORATION	Nevada	NAVY	RDTE/Electronics & Communication Eq-Engr D	49
	SILICON GRAPHICS INC	California	NAVY	RDTE/Electronics & Communication Eq-Engr D	216
	SIPPICAN INC	Mass	NAVY	RDTE/Electronics & Communication Eq-Engr D	4,997
	SMITHS INDUSTRIES INC USA	Michigan	USAF	RDTE/Electronics & Communication Eq-Engr D	2,109
	SOFTECH INC	California	NAVY	RDTE/Electronics & Communication Eq-Engr D	1,235
		Ohio	USAF	RDTE/Electronics & Communication Eq-Engr D	1,226

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
CONTRACTOR TOTAL					
	SONALYSTS INC	California	NAVY	RDTE/Electronics & Communication Eq-Engr D	2,461
	SOUTHERN RESEARCH TECHNOLOGIES	Florida	USAF	RDTE/Electronics & Communication Eq-Engr D	1,176
	SPARTON CORPORATION	Indiana	NAVY	RDTE/Electronics & Communication Eq-Engr D	351
	SPECIALTY CABLE CORP	Conn	NAVY	RDTE/Electronics & Communication Eq-Engr D	5,552
	SPERRY MARINE INC	Virginia	NAVY	RDTE/Electronics & Communication Eq-Engr D	54
	STANFORD TELECOMMUNICATIONS	California	USAF	RDTE/Electronics & Communication Eq-Engr D	2,582
	STC DEFENCE SYSTEMS	UNITED KIN	NAVY	RDTE/Electronics & Communication Eq-Engr D	370
	SUMARIA SYSTEMS INC	Mass	USAF	RDTE/Electronics & Communication Eq-Engr D	75
	SYNETICS CORPORATION	California	NAVY	RDTE/Electronics & Communication Eq-Engr D	776
	SYSTEM PLANNING CORPORATION	Virginia	ARMY	RDTE/Electronics & Communication Eq-Engr D	415
	SYSTEMS EXPLORATION INC	California	NAVY	RDTE/Electronics & Communication Eq-Engr D	649
	TECHNOLOGY COMMUNCATN INTL	California	ARMY	RDTE/Electronics & Communication Eq-Engr D	5,608
	TEKTREND INTERNATIONAL INC	CANADA	NAVY	RDTE/Electronics & Communication Eq-Engr D	353
	TELEDYNE INDUSTRIES INC	California	NAVY	RDTE/Electronics & Communication Eq-Engr D	58
	TEXAS A & M UNIV SYS THE	Texas	NAVY	RDTE/Electronics & Communication Eq-Engr D	300
	TEXAS INSTRUMENTS INC	Colorado	NAVY	RDTE/Electronics & Communication Eq-Engr D	233
		Texas	ARMY	RDTE/Electronics & Communication Eq-Engr D	4,200
	CONTRACTOR TOTAL				120
	TEXAS INSTRUMENTS WESTNGHSE JV	Texas	USAF	RDTE/Electronics & Communication Eq-Engr D	4,320
	TEXAS MEDICAL INSTRUMENTS	Texas	ARMY	RDTE/Electronics & Communication Eq-Engr D	97-
	TEXTRON INC	New York	NAVY	RDTE/Electronics & Communication Eq-Engr D	58
	THORN EMI ELECTRONICS LTD	UNITED KIN	NAVY	RDTE/Electronics & Communication Eq-Engr D	700
	TIBURON SYSTEMS INC	California	NAVY	RDTE/Electronics & Communication Eq-Engr D	39
					609

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AC64 (CONTINUED)

TRACOR AEROSPACE INC	Texas	NAVY USAF	RDTE/Electronics & Communication Eq-Engr D RDTE/Electronics & Communication Eq-Engr D	\$	2,386 2,028
STATE TOTAL					
TRACOR APPLIED SCIENCES INC	Texas	USAF	RDTE/Electronics & Communication Eq-Engr D		4,414
TRANSTECH PARALLEL SYSTEMS	New York	NAVY	RDTE/Electronics & Communication Eq-Engr D		2,346
TRANSTECHNOLOGY CORPORATION	California	USAF	RDTE/Electronics & Communication Eq-Engr D		506
TRIDENT SYSTEMS INC	Virginia	NAVY	RDTE/Electronics & Communication Eq-Engr D		106-
TRW INC	California	NAVY USAF	RDTE/Electronics & Communication Eq-Engr D RDTE/Electronics & Communication Eq-Engr D		166 178 658
STATE TOTAL					
UNISYS CORPORATION	Minnesota	NAVY	RDTE/Electronics & Communication Eq-Engr D		836
	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Engr D		3,184
CONTRACTOR TOTAL					
UN.SYS DEFENSE SYSTEMS INC	New York	NAVY	RDTE/Electronics & Communication Eq-Engr D		662
UNIVERSITY OF SOUTHERN CALIF	California	NAVY	RDTE/Electronics & Communication Eq-Engr D		3,846
UNIVERSITY OF TEXAS SYSTEM	Texas	NAVY	RDTE/Electronics & Communication Eq-Engr D		200
VAISALA INC	Mass	NAVY	RDTE/Electronics & Communication Eq-Engr D		68
VECTOR MICRO	Virginia	ARMY	RDTE/Electronics & Communication Eq-Engr D		4,073
VGS INC	Virginia	ARMY	RDTE/Electronics & Communication Eq-Engr D		550
VISICOM LABORATORIES INC	California	NAVY	RDTE/Electronics & Communication Eq-Engr D		307
VME MICROSYSTEMS INTL CORP	Alabama	NAVY	RDTE/Electronics & Communication Eq-Engr D		124
WHITTAKER CORPORATION	California	USAF	RDTE/Electronics & Communication Eq-Engr D		2,747
ZETA DATA INC	Florida	USAF	RDTE/Electronics & Communication Eq-Engr D		86
ZYCAD CORPORATION	New Jersey	USAF	RDTE/Electronics & Communication Eq-Engr D		17,789
R&D TOTAL					
					28
					3,416
					1,206,094

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION		
AC65	3 DBM ELECTRONIC CORP	California	USAF	RDTE/Electronics & Communication Eq-Op Sys	\$	61
	AEPCO INC	Maryland	NAVY	RDTE/Electronics & Communication Eq-Op Sys		50
	AEROSPACE MASS PRPTS ANALYSIS	Penn	NAVY	RDTE/Electronics & Communication Eq-Op Sys		247
	ALLIANT TECHSYSTEMS INC	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Op Sys		1,307
	ALLIED SIGNAL AEROSPACE CO	Maryland	NAVY	RDTE/Electronics & Communication Eq-Op Sys		60
	AMERICAN TELEPHONE & TELG CO	N Carolina	NAVY	RDTE/Electronics & Communication Eq-Op Sys		15,401
	APPLIED MICRO CIRCUITS CORP	New York	NAVY	RDTE/Electronics & Communication Eq-Op Sys		56
	APPLIED MOTION TECHNOLOGY	California	ARMY	RDTE/Electronics & Communication Eq-Op Sys		103
	ARETE ASSOCIATES	California	NAVY	RDTE/Electronics & Communication Eq-Op Sys		1,242
	ATLANTIC RESEARCH CORPORATION	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Op Sys		2,196
		Penn	NAVY	RDTE/Electronics & Communication Eq-Op Sys		140
	CONTRACTOR TOTAL					2,336
	AUTOMETRIC INC	New York	USAF	RDTE/Electronics & Communication Eq-Op Sys		50
	BOOZ ALLEN & HAMILTON INC	Maryland	NAVY	RDTE/Electronics & Communication Eq-Op Sys		1,590
	BROWN INTERNATIONAL	Alabama	USAF	RDTE/Electronics & Communication Eq-Op Sys		295
	C M ENGINEERING CO	New Mexico	USAF	RDTE/Electronics & Communication Eq-Op Sys		30
	CANADIAN COMMERCIAL CORP	CANADA	NAVY	RDTE/Electronics & Communication Eq-Op Sys		700
	CARNEGIE MELLON UNIVERSITY	Penn	NAVY	RDTE/Electronics & Communication Eq-Op Sys		204
	COLEMAN RESEARCH CORPORATION	New Mexico	ARMY	RDTE/Electronics & Communication Eq-Op Sys		883
	COLLINS INTERNATIONAL SVC CO	Iowa	ARMY USAF	RDTE/Electronics & Communication Eq-Op Sys RDTE/Electronics & Communication Eq-Op Sys		14,421 19-
	STATE TOTAL					14,402
		Texas	USAF	RDTE/Electronics & Communication Eq-Op Sys		18,417
	CONTRACTOR TOTAL					32,819
	COLUMBIA UNIVERSITY	New York	NAVY	RDTE/Electronics & Communication Eq-Op Sys		885
	COMPUTER SCIENCES CORPORATION	California	NAVY	RDTE/Electronics & Communication Eq-Op Sys		2,215

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## PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

FISCAL YEAR 1991

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AC65 (CONTINUED)

CONTAINER RESEARCH CORPORATION	Conn	NAVY	RDTE/Electronics & Communication	Eq-Op Sys	\$ 34
CONTRAVES USA INC	Mass	ARMY	RDTE/Electronics & Communication	Eq-Op Sys	127
CONTROL DATA CANADA LTD	CANADA	NAVY	RDTE/Electronics & Communication	Eq-Op Sys	662
CUBIC COMMUNICATIONS INC	California	NAVY	RDTE/Electronics & Communication	Eq-Op Sys	1,039
CUBIC CORPORATION	California	NAVY	RDTE/Electronics & Communication	Eq-Op Sys	2,440
DEWEY ELECTRONICS CORPORATION	New Jersey	NAVY	RDTE/Electronics & Communication	Eq-Op Sys	83
DOSS AVIATION INC	Alabama	ARMY	RDTE/Electronics & Communication	Eq-Op Sys	3,271
DRAGON SYSTEMS INC	Mass	NAVY	RDTE/Electronics & Communication	Eq-Op Sys	430
E SYSTEMS INC	Florida	NAVY	RDTE/Electronics & Communication	Eq-Op Sys	3,693
	Texas	USAF	RDTE/Electronics & Communication	Eq-Op Sys	5,019
	Virginia	ARMY	RDTE/Electronics & Communication	Eq-Op Sys	75
CONTRACTOR TOTAL					8,787
ECONOMICS TECHNOLOGY ASSOC	California	NAVY	RDTE/Electronics & Communication	Eq-Op Sys	430
ELECTRONIC DATA SYSTEMS CORP	Texas	NAVY	RDTE/Electronics & Communication	Eq-Op Sys	107
ELECTROSPACE SYSTEMS INC	Texas	NAVY	RDTE/Electronics & Communication	Eq-Op Sys	3,692
ENCORE COMPUTER CORPORATION	Mass	NAVY	RDTE/Electronics & Communication	Eq-Op Sys	625
ENGINEERING TECHNOLOGIES INC	Virginia	NAVY	RDTE/Electronics & Communication	Eq-Op Sys	149
ESL INCORPORATED	California	ARMY	RDTE/Electronics & Communication	Eq-Op Sys	595
EVALUATION RESEARCH CORP	Virginia	NAVY	RDTE/Electronics & Communication	Eq-Op Sys	1,985
FORD H J ASSOCIATES INC	Ohio	USAF	RDTE/Electronics & Communication	Eq-Op Sys	817
FRONTIER ENGINEERING INC	Oklahoma	NAVY	RDTE/Electronics & Communication	Eq-Op Sys	1,262
FUENTEZ SYSTEMS CONCEPTS INC	Virginia	NAVY	RDTE/Electronics & Communication	Eq-Op Sys	285
GALAXY SCIENTIFIC CORP	New Jersey	NAVY	RDTE/Electronics & Communication	Eq-Op Sys	280
	Penn	NAVY	RDTE/Electronics & Communication	Eq-Op Sys	1,028

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AC65 (CONTINUED)

CONTRACTOR TOTAL					\$	1,308
GEMMA CORPORATION	Penn	NAVY		RDTE/Electronics & Communication Eq-Op Sys		100
GENERAL DYNAMICS CORPORATION	California	ARMY		RDTE/Electronics & Communication Eq-Op Sys		3,926
	Texas	USAF		RDTE/Electronics & Communication Eq-Op Sys		2,936
CONTRACTOR TOTAL						6,862
GENERAL ELECTRIC COMPANY	Mass	ARMY		RDTE/Electronics & Communication Eq-Op Sys		699
		NAVY		RDTE/Electronics & Communication Eq-Op Sys		9,451
		USAF		RDTE/Electronics & Communication Eq-Op Sys		107-
STATE TOTAL						10,043
	New Jersey	NAVY		RDTE/Electronics & Communication Eq-Op Sys		12,555
	New York	USAF		RDTE/Electronics & Communication Eq-Op Sys		577-
CONTRACTOR TOTAL						22,021
GEO CENTERS INC	Mass	NAVY		RDTE/Electronics & Communication Eq-Op Sys		100
GIORDANO ASSOCIATES INC	New Jersey	ARMY		RDTE/Electronics & Communication Eq-Op Sys		118
GTE GOVERNMENT SYSTEMS CORP	Mass	ARMY		RDTE/Electronics & Communication Eq-Op Sys		13,228
		USAF		RDTE/Electronics & Communication Eq-Op Sys		28,100
STATE TOTAL						41,328
	Virginia	ARMY		RDTE/Electronics & Communication Eq-Op Sys		44
CONTRACTOR TOTAL						41,372
GTE SYLVANIA COM PRODUCTS	Mass	USAF		RDTE/Electronics & Communication Eq-Op Sys		16,802
HARRIS CORPORATION	Florida	ARMY		RDTE/Electronics & Communication Eq-Op Sys		428
		USAF		RDTE/Electronics & Communication Eq-Op Sys		1,021
STATE TOTAL						1,449
HAZELTINE CORPORATION	New York	NAVY		RDTE/Electronics & Communication Eq-Op Sys		80
HONEYWELL INC	Florida	USAF		RDTE/Electronics & Communication Eq-Op Sys		957
	Minnesota	ARMY		RDTE/Electronics & Communication Eq-Op Sys		90

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AC65 (CONTINUED)

CONTRACTOR TOTAL			\$
HUGHES AIRCRAFT COMPANY	California	NAVY USAF	RDTE/Electronics & Communication Eq-Op Sys RDTE/Electronics & Communication Eq-Op Sys
STATE TOTAL			1,047
I R T CORPORATION	California	USAF	RDTE/Electronics & Communication Eq-Op Sys
STATE TOTAL			45
INFORMATION MANAGEMENT CONS	Virginia	ARMY	RDTE/Electronics & Communication Eq-Op Sys
STATE TOTAL			350
INFOTEC DEVELOPMENT INC	California	USAF	RDTE/Electronics & Communication Eq-Op Sys
STATE TOTAL			6,630
INSIGHT TECHNOLOGY INC	N.H.	ARMY	RDTE/Electronics & Communication Eq-Op Sys
STATE TOTAL			234
INTERNATIONAL BUS MCHS CORP	Florida	USAF	RDTE/Electronics & Communication Eq-Op Sys
STATE TOTAL			132
	Maryland	USAF	RDTE/Electronics & Communication Eq-Op Sys
STATE TOTAL			16,439
	New York	USAF	RDTE/Electronics & Communication Eq-Op Sys
STATE TOTAL			7,835-
	Virginia	NAVY USAF	RDTE/Electronics & Communication Eq-Op Sys RDTE/Electronics & Communication Eq-Op Sys
STATE TOTAL			109- 1,543
STATE TOTAL			1,434
CONTRACTOR TOTAL			10,170
ITT CORPORATION	California	NAVY	RDTE/Electronics & Communication Eq-Op Sys
STATE TOTAL			1,024
	Indiana	ARMY	RDTE/Electronics & Communication Eq-Op Sys
STATE TOTAL			131
	New Jersey	NAVY	RDTE/Electronics & Communication Eq-Op Sys
STATE TOTAL			1,081
CONTRACTOR TOTAL			2,236
J R S RESEARCH LABORATORIES	California	NAVY	RDTE/Electronics & Communication Eq-Op Sys
STATE TOTAL			203
JOHNS HOPKINS UNIVERSITY	Maryland	NAVY	RDTE/Electronics & Communication Eq-Op Sys
STATE TOTAL			30,367
KEARFOTT GDNCE NAVIGATION CORP	New Jersey	NAVY	RDTE/Electronics & Communication Eq-Op Sys
STATE TOTAL			68,088
LITTON SYSTEMS INC	California	ARMY NAVY	RDTE/Electronics & Communication Eq-Op Sys RDTE/Electronics & Communication Eq-Op Sys
STATE TOTAL			5,111 167,985
STATE TOTAL			173,096

## DEPARTMENT OF DEFENSE

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AC65 (CONTINUED)					
	LOCKHEED AERONAUTICAL SYS CO	Georgia	NAVY USAF	RDTE/Electronics & Communication Eq-Op Sys RDTE/Electronics & Communication Eq-Op Sys	96 1,428
		STATE TOTAL			1,524
	LOCKHEED CORPORATION	N.H.	NAVY	RDTE/Electronics & Communication Eq-Op Sys	17,020
	LOCKHEED MISSILES & SPACE CO	California	NAVY	RDTE/Electronics & Communication Eq-Op Sys	3,250
		Texas	NAVY	RDTE/Electronics & Communication Eq-Op Sys	199
	CONTRACTOR TOTAL				3,449
	LOCKHEED SANDERS INC	N.H.	ARMY	RDTE/Electronics & Communication Eq-Op Sys	100
	LORAL CORPORATION	California	ARMY USAF	RDTE/Electronics & Communication Eq-Op Sys RDTE/Electronics & Communication Eq-Op Sys	763 18,664
		STATE TOTAL			19,427
		Kansas	ARMY	RDTE/Electronics & Communication Eq-Op Sys	10,193
	CONTRACTOR TOTAL				29,620
	LOS ALAMOS TECHNICAL ASSOC INC	New Mexico	USAF	RDTE/Electronics & Communication Eq-Op Sys	2,730
	M/A COM INC	Mass	ARMY	RDTE/Electronics & Communication Eq-Op Sys	232
	MAGNAVOX GOVT & INDUSTR ELCTR	Indiana	ARMY NAVY	RDTE/Electronics & Communication Eq-Op Sys RDTE/Electronics & Communication Eq-Op Sys	17,759 741
		STATE TOTAL			18,500
		New Jersey	ARMY	RDTE/Electronics & Communication Eq-Op Sys	978
	CONTRACTOR TOTAL				19,478
	MANTECH INTERNATIONAL CORP	Arizona	ARMY	RDTE/Electronics & Communication Eq-Op Sys	771
	MARTIN MARIETTA CORPORATION	Florida	USAF	RDTE/Electronics & Communication Eq-Op Sys	4,116
		Maryland	NAVY	RDTE/Electronics & Communication Eq-Op Sys	30
		Minnesota	USAF	RDTE/Electronics & Communication Eq-Op Sys	605
		New Mexico	USAF	RDTE/Electronics & Communication Eq-Op Sys	120
	CONTRACTOR TOTAL				4,871

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION		
AC65 (CONTINUED)						
	MCDONNELL DOUGLAS CORPORATION	Missouri	USAF	RDTE/Electronics & Communication Eq-Op Sys	\$	16,021
	METTERS INDUSTRIES INC	Virginia	NAVY	RDTE/Electronics & Communication Eq-Op Sys		50
	MILTOPE CORPORATION	New York	NAVY	RDTE/Electronics & Communication Eq-Op Sys		8,801
	MINNESOTA MINING & MFG CO	Minnesota	USAF	RDTE/Electronics & Communication Eq-Op Sys		3,081
	MODERN TECHNOLOGIES CORP	Ohio	ARMY	RDTE/Electronics & Communication Eq-Op Sys		1,411
	PARAGON SYSTEMS INC	GERMANY	ARMY	RDTE/Electronics & Communication Eq-Op Sys		235
	PENNSYLVANIA STATE UNIV INC	Penn	ARMY	RDTE/Electronics & Communication Eq-Op Sys		250
			NAVY	RDTE/Electronics & Communication Eq-Op Sys		48,185
	STATE TOTAL					48,435
	Texas	NAVY		RDTE/Electronics & Communication Eq-Op Sys		1,517
	CONTRACTOR TOTAL					49,952
	PHOENIX SYSTEMS TECHNOLOGY	California	NAVY	RDTE/Electronics & Communication Eq-Op Sys		469
	POLAR ASSOCIATES	California	NAVY	RDTE/Electronics & Communication Eq-Op Sys		1,079
	PRC INC	Virginia	ARMY	RDTE/Electronics & Communication Eq-Op Sys		3,168
	PRESEARCH INCORPORATED	Florida	NAVY	RDTE/Electronics & Communication Eq-Op Sys		702
	R J O ENTERPRISES INC	Maryland	ARMY	RDTE/Electronics & Communication Eq-Op Sys		891
			NAVY	RDTE/Electronics & Communication Eq-Op Sys		1,075
	STATE TOTAL					1,966
	RAYTHEON COMPANY	Mass	NAVY	RDTE/Electronics & Communication Eq-Op Sys		56,040
			USAF	RDTE/Electronics & Communication Eq-Op Sys		12,260
	STATE TOTAL					68,300
	RESEARCH & DEV LABORATORIES	California	NAVY	RDTE/Electronics & Communication Eq-Op Sys		177
	ROCKWELL INTERNATIONAL CORP	Iowa	ARMY	RDTE/Electronics & Communication Eq-Op Sys		681
			NAVY	RDTE/Electronics & Communication Eq-Op Sys		158
			USAF	RDTE/Electronics & Communication Eq-Op Sys		13,985
	STATE TOTAL					14,824
	S T RESEARCH CORPORATION	Virginia	NAVY	RDTE/Electronics & Communication Eq-Op Sys		61

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AC65 (CONTINUED)					
	SCIENCE APPLICATIONS INTL CORP	California	NAVY	RDTE/Electronics & Communication Eq-Op Sys	19,521
	SEMCOR INC	New Jersey	NAVY	RDTE/Electronics & Communication Eq-Op Sys	3,459
	SENSIS CORPORATION	New York	NAVY	RDTE/Electronics & Communication Eq-Op Sys	1,564
	SIERRA CYBERNETICS INC	California	NAVY	RDTE/Electronics & Communication Eq-Op Sys	207
	SILICON GRAPHICS INC	Maryland	NAVY	RDTE/Electronics & Communication Eq-Op Sys	50
	SMITHS INDUSTRIES INC USA	Michigan	USAF	RDTE/Electronics & Communication Eq-Op Sys	600
	SUNDSTRAND DATA CONTROL INC	Washington	NAVY	RDTE/Electronics & Communication Eq-Op Sys	26-
	SYSCON CORPORATION	California	NAVY	RDTE/Electronics & Communication Eq-Op Sys	3,462
	SYSTEM RESOURCES CORPORATION	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Op Sys	3,140
	SYSTEMS ENGRG & MGT ASSOC	Virginia	ARMY	RDTE/Electronics & Communication Eq-Op Sys	691
	SYSTEMS INTEGRATION & DEV INC	California	NAVY	RDTE/Electronics & Communication Eq-Op Sys	602
	SYSTEMS RES APPLICATIONS CORP	Virginia	ARMY	RDTE/Electronics & Communication Eq-Op Sys	25,873
	TECHNICAL & MGT SVCS CORP	Ohio	USAF	RDTE/Electronics & Communication Eq-Op Sys	60
	TEXAS INSTRUMENTS INC	Texas	ARMY USAF	RDTE/Electronics & Communication Eq-Op Sys	175 250
	STATE TOTAL				
	TRACOR APPLIED SCIENCES INC	California	NAVY	RDTE/Electronics & Communication Eq-Op Sys	1,221
	TRW INC	California	ARMY NAVY USAF	RDTE/Electronics & Communication Eq-Op Sys	63,232 1,358 34,548
	STATE TOTAL				
	CONTRACTOR TOTAL				
	U S E C O	New Mexico	NAVY	RDTE/Electronics & Communication Eq-Op Sys	34-
	UNISYS CORPORATION	Colorado	NAVY	RDTE/Electronics & Communication Eq-Op Sys	99,104
		California	NAVY	RDTE/Electronics & Communication Eq-Op Sys	503
					360

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AC65 (CONTINUED)

Minnesota	USAF	RDTE/Electronics & Communication	Eq-Op	Sys	\$ 8,515
New York	USAF	RDTE/Electronics & Communication	Eq-Op	Sys	69
Virginia	ARMY	RDTE/Electronics & Communication	Eq-Op	Sys	26
	NAVY	RDTE/Electronics & Communication	Eq-Op	Sys	110
STATE TOTAL					136

## CONTRACTOR TOTAL

UNISYS DEFENSE SYSTEMS INC	New Mexico	NAVY	RDTE/Electronics & Communication	Eq-Op	Sys	9,080
	New York	ARMY	RDTE/Electronics & Communication	Eq-Op	Sys	1,640
		NAVY	RDTE/Electronics & Communication	Eq-Op	Sys	280
		USAF	RDTE/Electronics & Communication	Eq-Op	Sys	400
STATE TOTAL						393,522

## STATE TOTAL

STATE TOTAL						394,202
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## CONTRACTOR TOTAL

UNIVERSAL HI TECH DEVELOPMENT	Maryland	ARMY	RDTE/Electronics & Communication	Eq-Op	Sys	1,224
UNIVERSITY OF CALIFORNIA	California	NAVY	RDTE/Electronics & Communication	Eq-Op	Sys	798
UNIVERSITY OF TEXAS SYSTEM	Texas	NAVY	RDTE/Electronics & Communication	Eq-Op	Sys	32,296
UNIVERSITY OF WASHINGTON	Washington	NAVY	RDTE/Electronics & Communication	Eq-Op	Sys	2,100
VREULS RESEARCH CORPORATION	Virginia	ARMY	RDTE/Electronics & Communication	Eq-Op	Sys	25
WESTINGHOUSE ELECTRIC CORP	Maryland	NAVY	RDTE/Electronics & Communication	Eq-Op	Sys	101

## R&amp;D TOTAL

1,335,467

## AC66 ADAPTIVE TECHNOLOGY INC

219

## ADVANCED COMPUTER SYSTEMS

718

## ADVANCED DECISION SYSTEMS

190

## ADVANCED RESEARCH CORPORATION

214

## AERODYNE RESEARCH INC

50

58

## STATE TOTAL

108

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R-D DESCRIPTION	\$
AC66 (CONTINUED)					
	ATRSACE TECHNOLOGY CORP	California	NAVY	RDTE/Electronics & Communication Eq-Mgmt &	50
	AMBER ENGINEERING INC	California	USAF	RDTE/Electronics & Communication Eq-Mgmt &	279
	AMERICAN GNC CORP	California	USAF	RDTE/Electronics & Communication Eq-Mgmt &	225
	AMHERST SYSTEMS INC	New York	USAF	RDTE/Electronics & Communication Eq-Mgmt &	260
	ANADAC INC	Virginia	NAVY	RDTE/Electronics & Communication Eq-Mgmt &	50
	ANALYSIS CONSULTANTS	California	USAF	RDTE/Electronics & Communication Eq-Mgmt &	165
	ANALYTIC SCIENCE CORP THE	Mass	USAF	RDTE/Electronics & Communication Eq-Mgmt &	573
	AQUIDNECK MGT ASSOC LTD	Rhode Isld	NAVY	RDTE/Electronics & Communication Eq-Mgmt &	50
	ASTRO MED INC	Rhode Isld	NAVY	RDTE/Electronics & Communication Eq-Mgmt &	31
	ASTRON CORPORATION	Virginia	NAVY	RDTE/Electronics & Communication Eq-Mgmt &	32
	AURORA ASSOCIATES	California	USAF	RDTE/Electronics & Communication Eq-Mgmt &	190
	BLOOM E J ASSOCIATES INC	California	ARMY	RDTE/Electronics & Communication Eq-Mgmt &	69
	CHANG INDUSTRY INC	California	USAF	RDTE/Electronics & Communication Eq-Mgmt &	277
	CRYSTALLUME	California	NAVY	RDTE/Electronics & Communication Eq-Mgmt &	268
	CURRIE ENGINEERING CONSULTANTS	California	NAVY	RDTE/Electronics & Communication Eq-Mgmt &	69
	DAINA	Minnesota	USAF	RDTE/Electronics & Communication Eq-Mgmt &	39
	DEUTSCHE BUNDESPOST	GERMANY	ARMY	RDTE/Electronics & Communication Eq-Mgmt &	11,021
	DISPLAYTECH INC	Colorado	NAVY	RDTE/Electronics & Communication Eq-Mgmt &	55
	ELECTRO RADIATION INC	New Jersey	USAF	RDTE/Electronics & Communication Eq-Mgmt &	385
	ELECTRONIC DECISIONS INC	Illinois	NAVY	RDTE/Electronics & Communication Eq-Mgmt &	40
	ELECTROSPACE SYSTEMS INC	Virginia	ARMY	RDTE/Electronics & Communication Eq-Mgmt &	2,492
	ESSEX CORPORATION	Virginia	NAVY	RDTE/Electronics & Communication Eq-Mgmt &	49
	FAILURE ANALYSIS ASSOCIATES	California	USAF	RDTE/Electronics & Communication Eq-Mgmt &	193
	FOSTER MILLER INC	Mass	USAF	RDTE/Electronics & Communication Eq-Mgmt &	250
	FRONTIER TECHNOLOGY INC	California	USAF	RDTE/Electronics & Communication Eq-Mgmt &	52

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AC66 (CONTINUED)

GENERAL ELECTRIC COMPANY	New Jersey	NAVY	RDTE/Electronics & Communication Eq-Mgmt &	\$	1,130
HADRON INC	Virginia	ARMY	RDTE/Electronics & Communication Eq-Mgmt &		30
HARRIS CORPORATION	Florida	ARMY	RDTE/Electronics & Communication Eq-Mgmt &		285
HYPRES INC	New York	USAF	RDTE/Electronics & Communication Eq-Mgmt &		166
I MATH ASSOCIATES INC	Florida	USAF	RDTE/Electronics & Communication Eq-Mgmt &		108
INTEGRATED SOFTWARE INC	Florida	USAF	RDTE/Electronics & Communication Eq-Mgmt &		29
INTERMETRICS INC	Penn	NAVY	RDTE/Electronics & Communication Eq-Mgmt &		483
INTERNATIONAL BUS MCHS CORP	Maryland	USAF	RDTE/Electronics & Communication Eq-Mgmt &		218
JBS TECHNOLOGIES INC	California	USAF	RDTE/Electronics & Communication Eq-Mgmt &		165
K V H INDUSTRIES INC	Rhode Isld	NAVY	RDTE/Electronics & Communication Eq-Mgmt &		639
KACHINA TECH INC	New Mexico	USAF	RDTE/Electronics & Communication Eq-Mgmt &		175
L & W RESEARCH INC	Conn	USAF	RDTE/Electronics & Communication Eq-Mgmt &		240
LASER POWER CORP	California	USAF	RDTE/Electronics & Communication Eq-Mgmt &		95
LIGHTWAVE ELECTRONICS CORP	California	USAF	RDTE/Electronics & Communication Eq-Mgmt &		342
LOCUS INC	Penn	NAVY	RDTE/Electronics & Communication Eq-Mgmt &		31
	Virginia	NAVY	RDTE/Electronics & Communication Eq-Mgmt &		36
					67
CONTRACTOR TOTAL					
MAGNAVOX GOVT & INDUSTR ELCTR	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Mgmt &		273
MARTIN MARIETTA CORPORATION	Colorado	USAF	RDTE/Electronics & Communication Eq-Mgmt &		1,753
METROLOGIC INC	Ohio	NAVY	RDTE/Electronics & Communication Eq-Mgmt &		49
NORTH STAR RESEARCH INC	New Mexico	USAF	RDTE/Electronics & Communication Eq-Mgmt &		59
OMNI VIEW INC	Penn	USAF	RDTE/Electronics & Communication Eq-Mgmt &		59
OPTech LAB	California	NAVY	RDTE/Electronics & Communication Eq-Mgmt &		49
OPTICS ONE INC	California	NAVY	RDTE/Electronics & Communication Eq-Mgmt &		57

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AC66 (CONTINUED)

OPTIMIZATION TECHNOLOGY INC	Alabama	NAVY	RDTE/Electronics & Communication Eq-Mgmt &	\$	170
PACIFIC SIERRA RESEARCH CORP	California	NAVY	RDTE/Electronics & Communication Eq-Mgmt &		310
PAGE AUTMTD TELECOM SYS INC	California	NAVY	RDTE/Electronics & Communication Eq-Mgmt &		285
PHYSICAL OPTICS CORPORATION	California	NAVY	RDTE/Electronics & Communication Eq-Mgmt &		293
PRAZNIK A ASSOCIATES	Virginia	ARMY	RDTE/Electronics & Communication Eq-Mgmt &		30
QUANTEX CORPORATION	Maryland	NAVY	RDTE/Electronics & Communication Eq-Mgmt &		50
QUANTIC INDUSTRIES INC	California	ARMY	RDTE/Electronics & Communication Eq-Mgmt &		79
RADIX SYSTEMS INC	Maryland	NAVY	RDTE/Electronics & Communication Eq-Mgmt &		245
S C S TELECOM INC	New York	NAVY	RDTE/Electronics & Communication Eq-Mgmt &		474
SAVI TECHNOLOGY INC	California	NAVY	RDTE/Electronics & Communication Eq-Mgmt &		169
SCIENCE & ENGINEERING ASSOC	New Mexico	USAF	RDTE/Electronics & Communication Eq-Mgmt &		146
SCIENCE & TECHNOLOGY CORP	Virginia	ARMY NAVY	RDTE/Electronics & Communication Eq-Mgmt & RDTE/Electronics & Communication Eq-Mgmt &		204 228
		STATE TOTAL			432
SCIENTIFIC ATLANTA INC	California	ARMY	RDTE/Electronics & Communication Eq-Mgmt &		200
SENSIS CORPORATION	New York	NAVY	RDTE/Electronics & Communication Eq-Mgmt &		51
SOFTWELL ASSOCIATES INC	N.H.	USAF	RDTE/Electronics & Communication Eq-Mgmt &		89
SOHAR INCORPORATED	California	USAF	RDTE/Electronics & Communication Eq-Mgmt &		50
SOUTHERN RESEARCH TECHNOLOGIES	Alabama	USAF	RDTE/Electronics & Communication Eq-Mgmt &		188
SPECTRAN CORPORATION	Mass	NAVY	RDTE/Electronics & Communication Eq-Mgmt &		51
STERLING FEDERAL SYSTEMS INC	Nebraska	USAF	RDTE/Electronics & Communication Eq-Mgmt &		11,282
SUMMIT RESEARCH CORPORATION	Maryland	NAVY	RDTE/Electronics & Communication Eq-Mgmt &		36
SYNECTICS CORP	Virginia	NAVY	RDTE/Electronics & Communication Eq-Mgmt &		245
T S C INC	California	ARMY	RDTE/Electronics & Communication Eq-Mgmt &		60

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CONTRY	DEPT	R&D DESCRIPTION	
AC66 (CONTINUED)					
	TANNER RESEARCH INC	California	NAVY	RDTE/Electronics & Communication Eq-Mgmt &	\$ 491
	TRIDENT SYSTEMS INC	Virginia	NAVY	RDTE/Electronics & Communication Eq-Mgmt &	49
	TRW INC	California	ARMY	RDTE/Electronics & Communication Eq-Mgmt &	4,390
		Virginia	NAVY	RDTE/Electronics & Communication Eq-Mgmt &	262
	CONTRACTOR TOTAL				4,652
	U T L CORPORATION	GERMANY	ARMY	RDTE/Electronics & Communication Eq-Mgmt &	238
	UNIVERSAL TECHNOLOGY CORP	Ohio	USAF	RDTE/Electronics & Communication Eq-Mgmt &	94
	R&D TOTAL				45,543
AC91	ALLIANT TECHSYSTEMS INC	Minnesota	ARMY	RDTE/Misc Hard Goods-Basic Research	50
	AUBURN UNIVERSITY	Alabama	ARMY	RDTE/Misc Hard Goods-Basic Research	63
	AUTO INFO & MANAGE SYS INC	Maryland	ARMY	RDTE/Misc Hard Goods-Basic Research	150
	BDM INTERNATIONAL INC	Virginia	ARMY	RDTE/Misc Hard Goods-Basic Research	250
	FIBERTEK INC	Virginia	ARMY	RDTE/Misc Hard Goods-Basic Research	144
	HITTITE MICROWAVE CORPORATION	Mass	NAVY	RDTE/Misc Hard Goods-Basic Research	150
	HONEYWELL INC	Minnesota	ARMY	RDTE/Misc Hard Goods-Basic Research	846
	HUGHES AIRCRAFT COMPANY	California	ARMY	RDTE/Misc Hard Goods-Basic Research	1,420
	LITTON SYSTEMS INC	California	ARMY	RDTE/Misc Hard Goods-Basic Research	78
	MCDONNELL DOUGLAS HELICOPTER	Arizona	ARMY	RDTE/Misc Hard Goods-Basic Research	1,011
	TACAN CORPORATION	California	ARMY	RDTE/Misc Hard Goods-Basic Research	50
	TEKTRONIX INC	Oregon	NAVY	RDTE/Misc Hard Goods-Basic Research	739
	TEXAS INSTRUMENTS INC	Texas	ARMY	RDTE/Misc Hard Goods-Basic Research	616
	TRW INC	California	ARMY	RDTE/Misc Hard Goods-Basic Research	1,226
	UNITED TECHNOLOGIES CORP	Florida	NAVY	RDTE/Misc Hard Goods-Basic Research	60
	R&D TOTAL				6,853

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AC92	APPLIED ORDNANCE TECHNOLOGY	Maryland	NAVY	RDTE/Misc Hard Goods-Exploratory Developme	198
	EATON CORPORATION	New York	USAF	RDTE/Misc Hard Goods-Exploratory Developme	47
	ELECTRONIC POWER CONDITIONING	Oregon	ARMY	RDTE/Misc Hard Goods-Exploratory Developme	249
	GENERAL ELECTRIC COMPANY	Conn	NAVY	RDTE/Misc Hard Goods-Exploratory Developme	122
		Ohio	NAVY	RDTE/Misc Hard Goods-Exploratory Developme	2,040
	CONTRACTOR TOTAL				2,162
	MASSACHSTTS INST OF TECHNOLOGY	Mass	NAVY	RDTE/Misc Hard Goods-Exploratory Developme	149
	NEPTUNE TECHNOLOGIES INC	Miss	NAVY	RDTE/Misc Hard Goods-Exploratory Developme	36
	PACER SYSTEMS INC	Penn	NAVY	RDTE/Misc Hard Goods-Exploratory Developme	40
	PHOENIX DIGITAL CORPORATION	Arizona	NAVY	RDTE/Misc Hard Goods-Exploratory Developme	47
	ROLLS ROYCE INC	Georgia	NAVY	RDTE/Misc Hard Goods-Exploratory Developme	395
	R&D TOTAL				3,321
AC93	APPLIED ORDNANCE TECHNOLOGY	Maryland	NAVY	RDTE/Misc Hard Goods-Advanced Development	75
	AVIONIC INSTRUMENTS INC	New Jersey	ARMY	RDTE/Misc Hard Goods-Advanced Development	53-
	E I C LABORATORY INC	Mass	NAVY	RDTE/Misc Hard Goods-Advanced Development	110
	G & F COMPANY	California	ARMY	RDTE/Misc Hard Goods-Advanced Development	4,000
	HERCULES INCORPORATED	Utah	ARMY	RDTE/Misc Hard Goods-Advanced Development	125
	KECO INDUSTRIES INC	Kentucky	ARMY	RDTE/Misc Hard Goods-Advanced Development	70
	LOCKHEED ENGINEERING & SCIENCE	Utah	ARMY	RDTE/Misc Hard Goods-Advanced Development	2,540
	LORAL CORPORATION	Arizona	ARMY	RDTE/Misc Hard Goods-Advanced Development	128
	MOTOROLA INC	Arizona	NAVY	RDTE/Misc Hard Goods-Advanced Development	1,934
	S S G INC	Mass	NAVY	RDTE/Misc Hard Goods-Advanced Development	70-
	SCIENCE APPLICATIONS INTL CORP	California	NAVY	RDTE/Misc Hard Goods-Advanced Development	757
	SORRENTO ELECTRONICS INC	California	NAVY	RDTE/Misc Hard Goods-Advanced Development	863
	R&D TOTAL				10,479
AC94	ADVANCED MATERIALS INC	Louisiana	ARMY	RDTE/Misc Hard Goods-Engr Development	400

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AC94 (CONTINUED)					
	AEROSPACE MASS PRPTS ANALYSIS	Penn	NAVY	RDTE/Misc Hard Goods-Engr Development	428
	BRUNSWICK CORPORATION	Florida	ARMY	RDTE/Misc Hard Goods-Engr Development	211
	CARTWRIGHT ELECTRONICS INC	California	NAVY	RDTE/Misc Hard Goods-Engr Development	381
	FRANKLIN RESEARCH CORP	Penn	NAVY	RDTE/Misc Hard Goods-Engr Development	55
	G & H TECHNOLOGY INC	California	NAVY	RDTE/Misc Hard Goods-Engr Development	178
	GENERAL ELECTRIC COMPANY	Alabama	NAVY	RDTE/Misc Hard Goods-Engr Development	4,729
		Mass	NAVY	RDTE/Misc Hard Goods-Engr Development	10,604
		New Jersey	NAVY	RDTE/Misc Hard Goods-Engr Development	34
	CONTRACTOR TOTAL				15,367
	I L C INDUSTRIES DELAWARE	Delaware	ARMY	RDTE/Misc Hard Goods-Engr Development	7,252
			USAF	RDTE/Misc Hard Goods-Engr Development	29
	STATE TOTAL				7,281
	CONTRACTOR TOTAL	Maryland	ARMY	RDTE/Misc Hard Goods-Engr Development	42-
					7,239
	MCDONNELL DOUGLAS CORPORATION	Missouri	NAVY	RDTE/Misc Hard Goods-Engr Development	6,267
	MERRIMAC INDUSTRIES INC	New Jersey	NAVY	RDTE/Misc Hard Goods-Engr Development	67
	MULTI ELECTRIC MFG INC	Illinois	USAF	RDTE/Misc Hard Goods-Engr Development	175
	NUCLEAR METALS INC	Mass	ARMY	RDTE/Misc Hard Goods-Engr Development	30
	ROLLS ROYCE INC	UNITED KIN	NAVY	RDTE/Misc Hard Goods-Engr Development	21,050
	SOUTHERN RESEARCH TECHNOLOGIES	Alabama	USAF	RDTE/Misc Hard Goods-Engr Development	97
	TELEDYNE INDUSTRIES INC	Alabama	ARMY	RDTE/Misc Hard Goods-Engr Development	320
	UNITED KINGDOM MINISTRY OF DEF	UNITED KIN	NAVY	RDTE/Misc Hard Goods-Engr Development	7,130
	R&D TOTAL				59,395
	AC95 ANDRULIS RESEARCH CORP	Utah	ARMY	RDTE/Misc Hard Goods-Op Systems Development	641

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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## AC95 (CONTINUED)

B E I MOTION SYSTEMS COMPANY	Arkansas	USAF	RDTE/Misc	Hard Goods-Op Systems Developmen	\$ 200
BOC GROUP INC A DELAWARE CORP	Texas	NAVY	RDTE/Misc	Hard Goods-Op Systems Developmen	80
LORAL CORPORATION	California	NAVY	RDTE/Misc	Hard Goods-Op Systems Developmen	7,355
MNEMONICS INC	Florida	NAVY	RDTE/Misc	Hard Goods-Op Systems Developmen	300
PLASMA THERM INC	Florida	ARMY	RDTE/Misc	Hard Goods-Op Systems Developmen	62
TENSION MEMBER TECHNOLOGY	California	NAVY	RDTE/Misc	Hard Goods-Op Systems Developmen	78
R&D TOTAL					8,716

AC96 AMERASIA TECHNOLOGY INC	California	NAVY	RDTE/Misc	Hard Goods-Mgmt & Support	49
CONTRAVES USA INC	Penn	USAF	RDTE/Misc	Hard Goods-Mgmt & Support	134
GEORGIA TECH RESEARCH CORP	Georgia	ARMY	RDTE/Misc	Hard Goods-Mgmt & Support	93
GSC ASSOCIATES INC	California	NAVY	RDTE/Misc	Hard Goods-Mgmt & Support	50
LAVENDER INDUSTRIES INC	California	NAVY	RDTE/Misc	Hard Goods-Mgmt & Support	45
MCDONNELL DOUGLAS CORPORATION	Missouri	NAVY	RDTE/Misc	Hard Goods-Mgmt & Support	249
PLANNING SYSTEMS INCORPORATED	Virginia	NAVY	RDTE/Misc	Hard Goods-Mgmt & Support	79
SCIENCE APPLICATIONS INTL CORP	California	ARMY	RDTE/Misc	Hard Goods-Mgmt & Support	49
SCIENTIFIC RESEARCH ASSOC INC	Conn	NAVY	RDTE/Misc	Hard Goods-Mgmt & Support	62
SPIRE CORPORATION	Mass	NAVY	RDTE/Misc	Hard Goods-Mgmt & Support	49
SYSTEMS TECHNOLOGY INC	California	NAVY	RDTE/Misc	Hard Goods-Mgmt & Support	49
WAUBIK INC	Michigan	NAVY	RDTE/Misc	Hard Goods-Mgmt & Support	50
R&D TOTAL					958

AD11 A A I CORPORATION	Maryland	USAF	RDTE/Ammunition-Basic Research		2,341
ENSCO INC	Virginia	ARMY	RDTE/Ammunition-Basic Research		50
GEO CENTERS INC	D.C.	NAVY	RDTE/Ammunition-Basic Research		153
POWER SPECTRA INC	California	USAF	RDTE/Ammunition-Basic Research		267

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD11 (CONTINUED)					
	QUANTIC INDUSTRIES INC	California	NAVY	RDTE/Ammunition-Basic Research	57
	RAMVISION	California	ARMY	RDTE/Ammunition-Basic Research	50
	S F A INC	D.C.	NAVY	RDTE/Ammunition-Basic Research	152
	SUSQUEHANNA RESOURCES ENVRNMNT	New York	ARMY	RDTE/Ammunition-Basic Research	253
	UNIVERSITY OF DELAWARE	Delaware	USAF	RDTE/Ammunition-Basic Research	80
	VERITAY TECHNOLOGY INC	New York	USAF	RDTE/Ammunition-Basic Research	200
	R&D TOTAL				3,603
AD12 A A I CORPORATION					
	ALLIANT TECHSYSTEMS INC	Maryland	ARMY	RDTE/Ammunition-Exploratory Development	220-
	ALLIED SIGNAL AEROSPACE CO	Minnesota	ARMY	RDTE/Ammunition-Exploratory Development	26
	ARMTEC DEFENSE PRODUCTS CO	Maryland	NAVY	RDTE/Ammunition-Exploratory Development	199
	CANADIAN COMMERCIAL CORP	California	ARMY	RDTE/Ammunition-Exploratory Development	253
		CANADA	ARMY USAF	RDTE/Ammunition-Exploratory Development RDTE/Ammunition-Exploratory Development	182 55
	STATE TOTAL				237
	CARNEGIE MELLON UNIVERSITY	Penn	ARMY	RDTE/Ammunition-Exploratory Development	241
	CHAMBERLAIN MANUFACTURING CORP	Penn	ARMY	RDTE/Ammunition-Exploratory Development	777
	DYNA EAST CORPORATION	Penn	ARMY	RDTE/Ammunition-Exploratory Development	212
	GEO CENTERS INC	Mass	ARMY	RDTE/Ammunition-Exploratory Development	100
	HARRIS CORPORATION	Florida	NAVY	RDTE/Ammunition-Exploratory Development	78
	HUGHES AIRCRAFT COMPANY	California	USAF	RDTE/Ammunition-Exploratory Development	51
	KDI PRECISION PRODUCTS INC	Maryland	ARMY	RDTE/Ammunition-Exploratory Development	168
	LUFKIN INDUSTRIES INC	Texas	NAVY	RDTE/Ammunition-Exploratory Development	3,940
	MC Q ASSOCIATES	Virginia	NAVY	RDTE/Ammunition-Exploratory Development	218
	MISSION RESEARCH CORPORATION	California	NAVY	RDTE/Ammunition-Exploratory Development	86

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$	
AD12 (CONTINUED)						
	OLIN ORDNANCE	Illinois	ARMY	RDTE/Ammunition-Exploratory Development		98
	PHYSICON INC	Alabama	USAF	RDTE/Ammunition-Exploratory Development		50
	TOYON RESEARCH CORP	California	NAVY	RDTE/Ammunition-Exploratory Development		300
	WICKLINE INDUSTRIES INC	N Carolina	ARMY	RDTE/Ammunition-Exploratory Development		386
	R&D TOTAL					7,200
AD13	AEROJET	California	ARMY	RDTE/Ammunition-Advanced Development		3,496
	ALLIANT TECHSYSTEMS INC	Minnesota	ARMY	RDTE/Ammunition-Advanced Development		33,604
			NAVY	RDTE/Ammunition-Advanced Development		1,230
			USAF	RDTE/Ammunition-Advanced Development		144
	STATE TOTAL					34,978
	ASTROSYSTEMS INC	Delaware	USAF	RDTE/Ammunition-Advanced Development		200
	ATLANTIC RESEARCH CORPORATION	Arkansas	USAF	RDTE/Ammunition-Advanced Development		510
		Ohio	USAF	RDTE/Ammunition-Advanced Development		30
	CONTRACTOR TOTAL					540
	AVCO CORPORATION	Mass	ARMY	RDTE/Ammunition-Advanced Development		23,508
	GENTEX CORPORATION	Penn	ARMY	RDTE/Ammunition-Advanced Development		43-
	HARRIS CORPORATION	Florida	NAVY	RDTE/Ammunition-Advanced Development		72
	HERCULES INCORPORATED	Utah	NAVY	RDTE/Ammunition-Advanced Development		37
		W Virginia	ARMY	RDTE/Ammunition-Advanced Development		628
	CONTRACTOR TOTAL					665
	MARTIN MARIETTA CORPORATION	Florida	ARMY	RDTE/Ammunition-Advanced Development		8,977
	OLIN CORP	Florida	ARMY	RDTE/Ammunition-Advanced Development		17,904
	PHYSICS INTERNATIONAL COMPANY	California	ARMY	RDTE/Ammunition-Advanced Development		315
	SOUTHWEST RESEARCH INSTITUTE	Texas	ARMY	RDTE/Ammunition-Advanced Development		117
	WESTERN DESIGN CORPORATION	California	ARMY	RDTE/Ammunition-Advanced Development		100-

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
<b>R&amp;D TOTAL</b>					
AD14	A A I CORPORATION	Maryland	ARMY	RDTE/Ammunition-Engineering Development	90,629
	AEROJET	California	ARMY	RDTE/Ammunition-Engineering Development	2,011
	ALLIANT TECHSYSTEMS INC	Minnesota	ARMY	RDTE/Ammunition-Engineering Development	55,828
			NAVY	RDTE/Ammunition-Engineering Development	33,328
					132
					33,460
<b>STATE TOTAL</b>					
	BRUNSWICK CORPORATION	Florida	ARMY	RDTE/Ammunition-Engineering Development	1,362
	DYNAMIT NOBEL AG	GERMANY	ARMY	RDTE/Ammunition-Engineering Development	45
	ELECTRO DESIGN MANUFACTURING	Alabama	ARMY	RDTE/Ammunition-Engineering Development	2,049
	ENVIRONMENTAL TECHNOLOGIES GRP	Maryland	ARMY	RDTE/Ammunition-Engineering Development	325
	FERRULMATIC INC	New Jersey	ARMY	RDTE/Ammunition-Engineering Development	249
	HONEYWELL INC	Minnesota	ARMY	RDTE/Ammunition-Engineering Development	1,925
	MARVIN ENGINEERING CO INC	California	ARMY	RDTE/Ammunition-Engineering Development	105
	SCHWARTZ ELECTRO-OPTICS INC	Florida	ARMY	RDTE/Ammunition-Engineering Development	268
	SPARTA INC	California	ARMY	RDTE/Ammunition-Engineering Development	3,801
	SPECTRUM MANAGEMENT GROUP INC	Virginia	ARMY	RDTE/Ammunition-Engineering Development	238
	VALENTEC INTERNATIONAL CORP	Florida	ARMY	RDTE/Ammunition-Engineering Development	26
	VERITAY TECHNOLOGY INC	New York	ARMY	RDTE/Ammunition-Engineering Development	248
	VISTA CONTROLS INC	California	ARMY	RDTE/Ammunition-Engineering Development	308
					102,248
<b>R&amp;D TOTAL</b>					
AD15	CANADIAN COMMERCIAL CORP	CANADA	ARMY	RDTE/Ammunition-Operational Systems Develo	132
	HERCULES INCORPORATED	New Jersey	ARMY	RDTE/Ammunition-Operational Systems Develo	176
	UNIVERSITY OF ROCHESTER	New York	ARMY	RDTE/Ammunition-Operational Systems Develo	1,760
					2,068
<b>R&amp;D TOTAL</b>					
AD16	BABCOCK & WILCOX COMPANY THE	Virginia	NAVY	RDTE/Ammunition-Management & Support	723

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD16 (CONTINUED)					
	GENERAL ELECTRIC COMPANY	Vermont	ARMY	RDTE/Ammunition-Management & Support	1,342
	GEO CENTERS INC	Mass	ARMY	RDTE/Ammunition-Management & Support	1,028
	OLIN ORDNANCE	Florida	ARMY	RDTE/Ammunition-Management & Support	1,680
	THORN EMI ELECTRONICS LTD	UNITED KIN	USAF	RDTE/Ammunition-Management & Support	212
	WAGNER CASTINGS COMPANY	Illinois	ARMY	RDTE/Ammunition-Management & Support	174
	R&D TOTAL				5,159
	AD21 ADVANCED ROTORCRAFT TECHNOLOGY	California	NAVY	RDTE/Services-Basic Research	50
	ALLIANCE TECHNOLOGIES CORP	Mass	ARMY	RDTE/Services-Basic Research	1,112
	ALLIANT TECHSYSTEMS INC	Colorado	NAVY	RDTE/Services-Basic Research	69
	ALLIED SIGNAL AEROSPACE CO	Colorado	ARMY	RDTE/Services-Basic Research	39
	AMERICAN SOC FOR TSTG MTRIALS	Penn	ARMY	RDTE/Services-Basic Research	60
	AMERICAN TELEPHONE & TELG CO	N Carolina	NAVY	RDTE/Services-Basic Research	185
	ANALYSIS & TECHNOLOGY INC	Conn	NAVY	RDTE/Services-Basic Research	85
	ANALYTIC SCIENCE CORP THE	Mass	ARMY USAF	RDTE/Services-Basic Research RDTE/Services-Basic Research	534 300
	STATE TOTAL				834
	ANTARES GROUP INC	California	NAVY	RDTE/Services-Basic Research	155
	ASI SYSTEMS INTERNATIONAL	California	NAVY	RDTE/Services-Basic Research	2,082
	ATLANTIC AEROSPACE ELECTRONICS	Maryland	NAVY	RDTE/Services-Basic Research	166
		Mass	NAVY	RDTE/Services-Basic Research	137
		Rhode Islid	NAVY	RDTE/Services-Basic Research	29
	CONTRACTOR TOTAL				332
	ATLANTIC APPLIED RESEARCH	Mass	NAVY	RDTE/Services-Basic Research	50
	BOLT BERANEK & NEWMAN INC	Mass	NAVY	RDTE/Services-Basic Research	69

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AD21 (CONTINUED)					
	BOOZ ALLEN & HAMILTON INC	D.C.	ARMY	RDTE/Services-Basic Research	397
	BRIMROSE CORP OF AMERICA	Maryland	NAVY	RDTE/Services-Basic Research	50
	CARNEGIE MELLON UNIVERSITY	Penn	USAF	RDTE/Services-Basic Research	50
	ECONOMICS TECHNOLOGY ASSOC	California	NAVY	RDTE/Services-Basic Research	5,251
	ELDYNE INC	Conn	NAVY	RDTE/Services-Basic Research	80
	ELECTRO MAGNETIC APPLICATION	Colorado	ARMY	RDTE/Services-Basic Research	39
	ENGINEERING COMPUTER OPTECNOMICS	Maryland	NAVY	RDTE/Services-Basic Research	40
	EPOCH ENGINEERING INC	Maryland	NAVY	RDTE/Services-Basic Research	837
	GEO CENTERS INC	New Jersey	ARMY	RDTE/Services-Basic Research	60
	GTE GOVERNMENT SYSTEMS CORP	Mass	USAF	RDTE/Services-Basic Research	151
	HARRIS CORPORATION	Florida	ARMY	RDTE/Services-Basic Research	48
	HARRIS GROUP THE INC	Virginia	USAF	RDTE/Services-Basic Research	30
	HONEYWELL INC	Minnesota	USAF	RDTE/Services-Basic Research	70
	I I T RESEARCH INSTITUTE	Tennessee	NAVY	RDTE/Services-Basic Research	100
	INTEGRATED SYSTEMS INC	California	ARMY	RDTE/Services-Basic Research	241
	JOINT MANAGEMENT SERVICES CO	Georgia	ARMY	RDTE/Services-Basic Research	194
	KAPOS ASSOCIATES INC	Virginia	NAVY	RDTE/Services-Basic Research	148
	MASSA PRODUCTS CORPORATION	Mass	NAVY	RDTE/Services-Basic Research	50
	MATERIALS SCIENCES CORP	Penn	ARMY	RDTE/Services-Basic Research	628
	MMT INC	Conn	ARMY	RDTE/Services-Basic Research	50
	NATIONAL ACADEMY SCIENCES USA	D.C.	ARMY	RDTE/Services-Basic Research	1,440
	PURDUE UNIVERSITY	Indiana	NAVY	RDTE/Services-Basic Research	662
	SCIENCE APPLICATIONS INTL CORP	California	ARMY	RDTE/Services-Basic Research	678
		Virginia	ARMY	RDTE/Services-Basic Research	1,703

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD21 (CONTINUED)					
	CONTRACTOR TOTAL				
	SECTOR TECHNOLOGY INC	Virginia	ARMY	RDTE/Services-Basic Research	2,381
	SONALYSTS INC	Rhode Islnd	NAVY	RDTE/Services-Basic Research	40
	SUPPOR CONTRACTING SYSTEMS	California	NAVY	RDTE/Services-Basic Research	170
	SUSQUEHANNA RESOURCES ENVRNMNT	New York	ARMY	RDTE/Services-Basic Research	4,466
	SYMVIIONICS INC	California	NAVY	RDTE/Services-Basic Research	250
	SYNETICS CORPORATION	Mass	NAVY	RDTE/Services-Basic Research	46
	T A O GROSS INC	Mass	NAVY	RDTE/Services-Basic Research	520
	ULTRASYSTEMS INCORPORATED	Arizona	NAVY	RDTE/Services-Basic Research	469
	UNITED STATES DEPT OF ENERGY	California	ARMY	RDTE/Services-Basic Research	214-
		Miss	NAVY	RDTE/Services-Basic Research	50
		New Mexico	NAVY	RDTE/Services-Basic Research	50
	CONTRACTOR TOTAL				150
	UNIVERSITY OF DETROIT INC	Michigan	ARMY	RDTE/Services-Basic Research	76
	WOODS HOLE OCNGRPHIC INSTUTE	Mass	NAVY	RDTE/Services-Basic Research	275
	R&D TOTAL				24,367
AD22	ADVANCED TECHNOLOGY & RESEARCH	Maryland	ARMY	RDTE/Services-Exploratory Development	53
			NAVY	RDTE/Services-Exploratory Development	508
	STATE TOTAL				561
	ALLIANT TECHSYSTEMS INC	Minnesota	USAF	RDTE/Services-Exploratory Development	256
	ALPHATECH INC	Mass	NAVY	RDTE/Services-Exploratory Development	84
	ANALYSIS & TECHNOLOGY INC	Conn	NAVY	RDTE/Services-Exploratory Development	299
	APPLIED MEASUREMENT SYSTEMS	Mass	NAVY	RDTE/Services-Exploratory Development	30
	AQUIDNECK MGT ASSOC LTD	Conn	NAVY	RDTE/Services-Exploratory Development	38

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## PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CONTRY	DEPT	R&D DESCRIPTION	\$
AD22 (CONTINUED)					
	ARETE ASSOCIATES	California	NAVY	RDTE/Services-Exploratory Development	485
	ASR INTERNATIONAL CORP	New York	ARMY	RDTE/Services-Exploratory Development	88
	ATLANTIC APPLIED RESEARCH	Mass	NAVY	RDTE/Services-Exploratory Development	89
	B K DYNAMICS INC	Maryland	ARMY	RDTE/Services-Exploratory Development	470
	BATTELLE MEMORIAL INSTITUTE	Ohio	ARMY	RDTE/Services-Exploratory Development	390
	BDM INTERNATIONAL INC	New Mexico	USAF	RDTE/Services-Exploratory Development	1,350
	BOLT BERANEK & NEWMAN INC	Conn	NAVY	RDTE/Services-Exploratory Development	56
		Mass	NAVY	RDTE/Services-Exploratory Development	286
	CONTRACTOR TOTAL				342
	CALIFORNIA RES & TECHNOLOGY	California	NAVY	RDTE/Services-Exploratory Development	143
	CONTROL SYSTEMS ANALYSIS	Rhode Isl	NAVY	RDTE/Services-Exploratory Development	30
	DATA DESIGN LABORATORIES	Conn	NAVY	RDTE/Services-Exploratory Development	133
		Virginia	NAVY	RDTE/Services-Exploratory Development	50
	CONTRACTOR TOTAL				183
	DJC ANALYTICS	Rhode Isl	NAVY	RDTE/Services-Exploratory Development	47
	E P L ANALYSIS INC	Maryland	NAVY	RDTE/Services-Exploratory Development	126
	ELECTROMAGNETIC LAUNCH RESRCH	Mass	NAVY	RDTE/Services-Exploratory Development	1,537
	ELECTRONIC WARFARE ASSOCIATES	Florida	NAVY	RDTE/Services-Exploratory Development	46
	ENSCO INC	Virginia	ARMY	RDTE/Services-Exploratory Development	50
	ENZIAN TECHNOLOGY INC	Florida	NAVY	RDTE/Services-Exploratory Development	145
	FLORIDA MAXIMA CORP	Florida	NAVY	RDTE/Services-Exploratory Development	85
	FUKUNAGA CONSULTING CORP	Indiana	NAVY	RDTE/Services-Exploratory Development	31
	G E C MARCONI MATERIAL	California	NAVY	RDTE/Services-Exploratory Development	695
	GENERAL DYNAMICS CORPORATION	California	NAVY	RDTE/Services-Exploratory Development	59

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AD22 (CONTINUED)

GENERAL ELECTRIC COMPANY	Conn	NAVY	RDTE/Services-Exploratory Development	\$	200
CONTRACTOR TOTAL	New York	NAVY	RDTE/Services-Exploratory Development		780
GENERAL PHYSICS CORPORATION	Florida	NAVY	RDTE/Services-Exploratory Development		980
GEORGE MASON UNIVERSITY	Virginia	NAVY	RDTE/Services-Exploratory Development		50-
HELEN L MOORE	California	NAVY	RDTE/Services-Exploratory Development		47
HUGHES AIRCRAFT COMPANY	California	NAVY	RDTE/Services-Exploratory Development		38
I NET INC	Maryland	NAVY	RDTE/Services-Exploratory Development		277
IMATRON INC	California	NAVY	RDTE/Services-Exploratory Development		881
INTERFEROMETRICS INC	Virginia	ARMY	RDTE/Services-Exploratory Development		225
LIFE CYCLE ENGINEERING INC	S Carolina	ARMY	RDTE/Services-Exploratory Development		333
LITTLE ARTHUR D INC	Mass	NAVY	RDTE/Services-Exploratory Development		100
LOCKHEED MISSILES & SPACE CO	Texas	ARMY	RDTE/Services-Exploratory Development		33
LOCKHEED SANDERS INC	N.H.	NAVY	RDTE/Services-Exploratory Development		215
MCDONNELL DOUGLAS CORPORATION	California	ARMY	RDTE/Services-Exploratory Development		140
MECHANICAL TECHNOLOGY INC	New York	NAVY	RDTE/Services-Exploratory Development		294
MICHIGAN STATE UNIVERSITY	Michigan	NAVY	RDTE/Services-Exploratory Development		317
MISSION RESEARCH CORPORATION	California	NAVY	RDTE/Services-Exploratory Development		74
CONTRACTOR TOTAL	New Mexico	ARMY	RDTE/Services-Exploratory Development		269
NATIONAL ACADEMY SCIENCES USA	D.C.	NAVY	RDTE/Services-Exploratory Development		1,566
NAVMAR INC	Penn	NAVY	RDTE/Services-Exploratory Development		1,835
OCEAN & ATMOSPHERIC SCIENCE	New York	ARMY	RDTE/Services-Exploratory Development		678
OCEAN ACOUSTICS ASSOCIATES	Rhode Isld	NAVY	RDTE/Services-Exploratory Development		222
					110
					60

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AD22 (CONTINUED)

OLD DMNION UNIV RES FUNDATION	Virginia	NAVY	RDTE/Services-Exploratory Development	\$	58
ORLANDO TECHNOLOGY INC	Florida	USAF	RDTE/Services-Exploratory Development		361
QUESTECH INC	Virginia	ARMY	RDTE/Services-Exploratory Development		141
		NAVY	RDTE/Services-Exploratory Development		342
	STATE TOTAL				483
R J O ENTERPRISES INC	Ohio	USAF	RDTE/Services-Exploratory Development		70
RACAL CORPORATION	Florida	NAVY	RDTE/Services-Exploratory Development		98
RAYTHEON COMPANY	Rhode Isld	NAVY	RDTE/Services-Exploratory Development		360
SATCON TECHNOLOGY CORPORATION	Mass	NAVY	RDTE/Services-Exploratory Development		75
SCIENCE APPLICATIONS INTL CORP	California	NAVY	RDTE/Services-Exploratory Development		1,461
	Conn	NAVY	RDTE/Services-Exploratory Development		95
	Hawaii	NAVY	RDTE/Services-Exploratory Development		280
	Ohio	USAF	RDTE/Services-Exploratory Development		254
CONTRACTOR TOTAL					2,090
SEARCH TECHNOLOGY INC	Georgia	NAVY	RDTE/Services-Exploratory Development		107
SOFTWARE TECHNOLOGY INC	D.C.	NAVY	RDTE/Services-Exploratory Development		223
SONALYSTS INC	Conn	NAVY	RDTE/Services-Exploratory Development		181
SOUTHEASTN CTR ELECTR ENG ED	Florida	ARMY	RDTE/Services-Exploratory Development		125
SURVICE ENGINEERING CO INC	Maryland	ARMY	RDTE/Services-Exploratory Development		100
TECHNICAL SERVICES GROUP	Ohio	USAF	RDTE/Services-Exploratory Development		456
UNIDYNE CORPORATION	Conn	NAVY	RDTE/Services-Exploratory Development		32
UNITED TECHNOLOGIES CORP	Conn	NAVY	RDTE/Services-Exploratory Development		67
UNIVERSITY OF CENTRAL FLORIDA	Florida	NAVY	RDTE/Services-Exploratory Development		1,534
UNIVERSITY OF DAYTON INC	Ohio	USAF	RDTE/Services-Exploratory Development		251

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AD22 (CONTINUED)					
	UNIVERSITY OF DENVER	Colorado	NAVY	RDTE/Services-Exploratory Development	\$ 186
	UNIVERSITY OF ROCHESTER	New York	ARMY	RDTE/Services-Exploratory Development	200
			NAVY	RDTE/Services-Exploratory Development	84
		STATE TOTAL			284
	UNIVERSITY OF SOUTH FLORIDA	Florida	NAVY	RDTE/Services-Exploratory Development	195
	UNIVERSITY OF SOUTHERN CALIF	California	NAVY	RDTE/Services-Exploratory Development	40
	UNIVERSITY OF TEXAS SYSTEM	Texas	ARMY	RDTE/Services-Exploratory Development	700
	UNIVERSITY SYSTEM OF NH	N.H.	NAVY	RDTE/Services-Exploratory Development	43
	VITRO CORPORATION	Rhode Isld	NAVY	RDTE/Services-Exploratory Development	35
	R&D TOTAL				22,622
AD23	ADAPTIVE DIGITAL SYSTEMS INC	California	NAVY	RDTE/Services-Advanced Development	193
	ADELMAN ASSOCIATES	California	ARMY	RDTE/Services-Advanced Development	116
	ADTECH SYSTEM RESEARCH INC	Ohio	USAF	RDTE/Services-Advanced Development	200
	ADVANCED TECHNOLOGY & RESEARCH	Maryland	NAVY	RDTE/Services-Advanced Development	379
	AEPCO INC	Maryland	NAVY	RDTE/Services-Advanced Development	4,042
	ALLIANT TECHSYSTEMS INC	Washington	NAVY	RDTE/Services-Advanced Development	486
	ANALYSIS & TECHNOLOGY INC	Conn	NAVY	RDTE/Services-Advanced Development	5,228
		Rhode Isld	NAVY	RDTE/Services-Advanced Development	96
	CONTRACTOR TOTAL				5,324
	ANALYTIC SCIENCE CORP THE	Ohio	USAF	RDTE/Services-Advanced Development	223
	APPLIED MEASUREMENT SYSTEMS	Conn	NAVY	RDTE/Services-Advanced Development	1,012
		Florida	NAVY	RDTE/Services-Advanced Development	35
	CONTRACTOR TOTAL				1,047
	AQUIDNECK MGT ASSOC LTD	Conn	NAVY	RDTE/Services-Advanced Development	67

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AD23 (CONTINUED)

CONTRACTOR TOTAL	Rhode Isld	NAVY	RDTE/Services-Advanced Development	\$	26
ARETE ASSOCIATES	California	NAVY	RDTE/Services-Advanced Development		93
ATACS CORPORATION	California	NAVY	RDTE/Services-Advanced Development		245
ATLANTIC AEROSPACE ELECTRONICS	Maryland	NAVY	RDTE/Services-Advanced Development		115
ATLANTIC APPLIED RESEARCH	Mass	NAVY	RDTE/Services-Advanced Development		54
BABCOCK & WILCOX COMPANY THE	Virginia	NAVY	RDTE/Services-Advanced Development		250
BABINGTON ENGINEERING	Virginia	ARMY	RDTE/Services-Advanced Development		138
BALL CORPORATION	California	USAF	RDTE/Services-Advanced Development		172
	Ohio	USAF	RDTE/Services-Advanced Development		45
CONTRACTOR TOTAL					1,362
BATTELLE DEVELOPMENT CORP	Ohio	USAF	RDTE/Services-Advanced Development		1,407
BATTELLE MEMORIAL INSTITUTE	Ohio	USAF	RDTE/Services-Advanced Development		434
BDM INTERNATIONAL INC	New Mexico	USAF	RDTE/Services-Advanced Development		41-
BOLT BERANEK & NEWMAN INC	Conn	NAVY	RDTE/Services-Advanced Development		966
	Mass	NAVY	RDTE/Services-Advanced Development		1,035
CONTRACTOR TOTAL					607
BOOZ ALLEN & HAMILTON INC	Maryland	ARMY	RDTE/Services-Advanced Development		1,642
	Virginia	NAVY	RDTE/Services-Advanced Development		6,282
CONTRACTOR TOTAL					359
BRTRC INC	Virginia	ARMY	RDTE/Services-Advanced Development		6,641
CAE-LINK CORPORATION	Virginia	NAVY	RDTE/Services-Advanced Development		102
COLUMBIA UNIVERSITY	New York	NAVY	RDTE/Services-Advanced Development		81
CONTROL SYSTEMS ANALYSIS	Rhode Isld	NAVY	RDTE/Services-Advanced Development		30
					50

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AD23 (CONTINUED)

CULHAM LABORATORY	UNITED KIN	ARMY	RDTE/Services-Advanced Development	\$	50
DATA DESIGN LABORATORIES	Conn	NAVY	RDTE/Services-Advanced Development		153
DYNAMICS RESEARCH CORPORATION	Mass	ARMY	RDTE/Services-Advanced Development		319
DYNATRON CORPORATION	Mass	NAVY	RDTE/Services-Advanced Development		35
EDO CORPORATION	New York	NAVY	RDTE/Services-Advanced Development		94
EG&G WASHINGTON ANALYTICAL SVC	Conn	NAVY	RDTE/Services-Advanced Development		2,034
ELDYNE INC	Conn	NAVY	RDTE/Services-Advanced Development		92
ELECTROMAGNETIC LAUNCH RESRCH	Mass	NAVY	RDTE/Services-Advanced Development		250
EPOCH ENGINEERING INC	Conn	NAVY	RDTE/Services-Advanced Development		77
ESSCUBE ENGINEERING INC	New Jersey	NAVY	RDTE/Services-Advanced Development		315
FLORIDA MAXIMA CORP	Florida	NAVY	RDTE/Services-Advanced Development		104
FLOW INDUSTRIES INC	Washington	NAVY	RDTE/Services-Advanced Development		504
FRONTIER ENGINEERING INC	Oklahoma	USAF	RDTE/Services-Advanced Development		320
FRONTIER TECHNOLOGY INC	Ohio	USAF	RDTE/Services-Advanced Development		677
FULL COMPASS SYSTEMS	Wisconsin	NAVY	RDTE/Services-Advanced Development		32
GENERAL DYNAMICS CORPORATION	Conn	NAVY	RDTE/Services-Advanced Development		143
GENERAL ELECTRIC COMPANY	New Jersey	NAVY	RDTE/Services-Advanced Development		130
	New York	NAVY	RDTE/Services-Advanced Development		600
	Penn	ARMY	RDTE/Services-Advanced Development		31
CONTRACTOR TOTAL					761
GENERAL PHYSICS CORPORATION	Conn	NAVY	RDTE/Services-Advanced Development		473
GETTLEMAN STONER INC	Mass	ARMY	RDTE/Services-Advanced Development		54
GOUGH PAUL ASSOCIATES INC	N.H.	ARMY	RDTE/Services-Advanced Development		30
HILTON SYSTEMS INC	Miss	ARMY	RDTE/Services-Advanced Development		527

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD23 (CONTINUED)					
	HUGHES AIRCRAFT COMPANY	California	NAVY	RDTE/Services-Advanced Development	3,044
		Conn	NAVY	RDTE/Services-Advanced Development	250
		Rhode Islid	NAVY	RDTE/Services-Advanced Development	283
	CONTRACTOR TOTAL				3,577
	HUMAN RSRCES RES ORGANIZATION	Virginia	NAVY	RDTE/Services-Advanced Development	67
	I I T RESEARCH INSTITUTE	Illinois	USAF	RDTE/Services-Advanced Development	284
	INNOVATIVE TECHNOLOGIES CORP	Ohio	USAF	RDTE/Services-Advanced Development	146
	INTEGRATED SYSTEMS ANALYSTS	California	NAVY	RDTE/Services-Advanced Development	318
		Virginia	NAVY	RDTE/Services-Advanced Development	1,066
	CONTRACTOR TOTAL				1,384
	INTEGRD TEST & EVAL COOPERATV	California	NAVY	RDTE/Services-Advanced Development	498
	INTERFEROMETRICS INC	Virginia	NAVY	RDTE/Services-Advanced Development	50
	INTERMAGNETICS GENERAL CORP	Mass	NAVY	RDTE/Services-Advanced Development	38
	INTERMETRICS INC	New Mexico	USAF	RDTE/Services-Advanced Development	1,666
		Penn	NAVY	RDTE/Services-Advanced Development	2,770
	CONTRACTOR TOTAL				4,436
	ISA ASSOCIATES INC	Virginia	NAVY	RDTE/Services-Advanced Development	196
	KENROB & ASSOCIATES INC	Virginia	NAVY	RDTE/Services-Advanced Development	44
	KPMG PEAT MARWICK	Conn	NAVY	RDTE/Services-Advanced Development	82
	LITTON INDUSTRIES INC	California	NAVY	RDTE/Services-Advanced Development	2,100
	MAGNAVOX GOVT & INDUSTRL ELCTR	New York	NAVY	RDTE/Services-Advanced Development	255
	MANAGEMENT CONSULTING & RES	Ohio	USAF	RDTE/Services-Advanced Development	873
	MCLAUGHLIN RESEARCH CORP	Conn	NAVY	RDTE/Services-Advanced Development	272
		Rhode Islid	NAVY	RDTE/Services-Advanced Development	52

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AD23 (CONTINUED)

CONTRACTOR TOTAL					\$	324
MING OF UTAH INC	Conn	NAVY	RDTE/Services-Advanced Development		77	
MODERN TECHNOLOGIES CORP	Ohio	ARMY	RDTE/Services-Advanced Development		100	
		USAF	RDTE/Services-Advanced Development		553	
STATE TOTAL					653	
OMNI ANALYSIS INC	Conn	NAVY	RDTE/Services-Advanced Development		75	
P R B ASSOCIATES INC	Maryland	NAVY	RDTE/Services-Advanced Development		95	
PACER SYSTEMS INC	Penn	NAVY	RDTE/Services-Advanced Development		484	
PAR TECHNOLOGY CORPORATION	New York	USAF	RDTE/Services-Advanced Development		5,331	
PARKER KINETIC DESIGN INC	Texas	ARMY	RDTE/Services-Advanced Development		1,226	
PLANNING SYSTEMS INCORPORATED	Virginia	NAVY	RDTE/Services-Advanced Development		4,177	
QUESTECH INC	Ohio	USAF	RDTE/Services-Advanced Development		629	
	Virginia	USAF	RDTE/Services-Advanced Development		851	
CONTRACTOR TOTAL					1,480	
RAIL COMPANY	Virginia	ARMY	RDTE/Services-Advanced Development		4,374	
RAYTHEON COMPANY	Conn	NAVY	RDTE/Services-Advanced Development		70	
	Rhode Isl	NAVY	RDTE/Services-Advanced Development		549	
CONTRACTOR TOTAL					619	
SCIENCE APPLICATIONS INTL CORP	Conn	NAVY	RDTE/Services-Advanced Development		121	
	Ohio	USAF	RDTE/Services-Advanced Development		147	
	Rhode Isl	NAVY	RDTE/Services-Advanced Development		95	
CONTRACTOR TOTAL					363	
SONALYSTS INC	Conn	NAVY	RDTE/Services-Advanced Development		2,647	
	Rhode Isl	NAVY	RDTE/Services-Advanced Development		545	

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD23 (CONTINUED)					
	CONTRACTOR TOTAL				
	SOUTHERN RESEARCH INSTITUTE	Alabama	USAF	RDTE/Services-Advanced Development	3,192
	STATCOM INC	Virginia	NAVY	RDTE/Services-Advanced Development	226
	STRUCTURED TECHNOLOGY CORP	Conn	NAVY	RDTE/Services-Advanced Development	418
	SYNETICS CORPORATION	Mass	NAVY	RDTE/Services-Advanced Development	31
	SYSCON CORPORATION	Conn	NAVY	RDTE/Services-Advanced Development	50
		Rhode Isl	NAVY	RDTE/Services-Advanced Development	392
	CONTRACTOR TOTAL				106
	SYSTEMS ENGINEERING ASSOC CORP	Conn	NAVY	RDTE/Services-Advanced Development	498
		Rhode Isl	NAVY	RDTE/Services-Advanced Development	419
	CONTRACTOR TOTAL				70
	TECHNOLOGY APPLICATIONS INC	Virginia	NAVY	RDTE/Services-Advanced Development	489
	TELEDYNE INDUSTRIES INC	California	NAVY	RDTE/Services-Advanced Development	123
	THIOKOL CORPORATION	Utah	USAF	RDTE/Services-Advanced Development	468
	TRACOR APPLIED SCIENCES INC	Conn	NAVY	RDTE/Services-Advanced Development	422
		Maryland	NAVY	RDTE/Services-Advanced Development	1,364
	CONTRACTOR TOTAL				156
	TROY SYSTEMS INC	Ohio	USAF	RDTE/Services-Advanced Development	1,520
	TRW INC	California	NAVY	RDTE/Services-Advanced Development	456
		Conn	NAVY	RDTE/Services-Advanced Development	405
		Ohio	USAF	RDTE/Services-Advanced Development	153
		Virginia	NAVY	RDTE/Services-Advanced Development	1,187
	CONTRACTOR TOTAL				1,745
	UNIDYNE CORPORATION	Conn	NAVY	RDTE/Services-Advanced Development	3,490
					32

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD23 (CONTINUED)					
	UNITED INTERNATIONAL ENGRG	New Mexico	NAVY	RDTE/Services-Advanced Development	161
	UNITED KINGDOM MINISTRY OF DEF	UNITED KIN	ARMY	RDTE/Services-Advanced Development	1,887
	UNIVERSITY OF CENTRAL FLORIDA	Florida	NAVY	RDTE/Services-Advanced Development	74
	UNIVERSITY OF LOWELL	Mass	ARMY	RDTE/Services-Advanced Development	75
	UNIXPROS INC	New Jersey	NAVY	RDTE/Services-Advanced Development	49
	VALID LOGIC SYSTEMS INC	Conn	NAVY	RDTE/Services-Advanced Development	65
	VECTOR RESEARCH COMPANY INC	Maryland	NAVY	RDTE/Services-Advanced Development	400
	VEDA INCORPORATED	Penn	NAVY	RDTE/Services-Advanced Development	90
	VITRO CORPORATION	Penn	NAVY	RDTE/Services-Advanced Development	942
	VITRONICS INC	New Jersey	ARMY	RDTE/Services-Advanced Development	3,930
	WAGNER DANIEL H ASSOCIATES	Penn	NAVY	RDTE/Services-Advanced Development	100
	WESTINGHOUSE ELECTRIC CORP	Conn	NAVY	RDTE/Services-Advanced Development	360
		Maryland	NAVY	RDTE/Services-Advanced Development	352
		Penn	NAVY	RDTE/Services-Advanced Development	762
	CONTRACTOR TOTAL				1,474
	R&D TOTAL				85,403
AD24	ADVANCED MICROSPHERE PDTS CO	California	NAVY	RDTE/Services-Engineering Development	499
	ADVANCED TECHNOLOGY & RESEARCH	Maryland	NAVY	RDTE/Services-Engineering Development	57
	ANALYSIS & TECHNOLOGY INC	Conn	NAVY	RDTE/Services-Engineering Development	4,186
		D.C.	NAVY	RDTE/Services-Engineering Development	78
		Florida	NAVY	RDTE/Services-Engineering Development	4,597
		Rhode Isld	NAVY	RDTE/Services-Engineering Development	587
	CONTRACTOR TOTAL				9,448
	ANALYTIC SCIENCE CORP THE	Ohio	USAF	RDTE/Services-Engineering Development	1,251

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AD24 (CONTINUED)

APPLIED MEASUREMENT SYSTEMS	Conn	NAVY	RDTE/Services-Engineering Development	\$	135
AQUIDNECK MGT ASSOC LTD	Rhode Isld	NAVY	RDTE/Services-Engineering Development		281
ARETE ASSOCIATES	California	NAVY	RDTE/Services-Engineering Development		100
ARINC RESEARCH CORPORATION	California	NAVY	RDTE/Services-Engineering Development		431
AVCO CORPORATION	Conn	ARMY	RDTE/Services-Engineering Development		328
BATTELLE MEMORIAL INSTITUTE	Ohio	USAF	RDTE/Services-Engineering Development		1,966
BOEING COMPANY THE	Alabama	USAF	RDTE/Services-Engineering Development		878
	Kansas	USAF	RDTE/Services-Engineering Development		23,625
CONTRACTOR TOTAL					24,503
BOLT BERANEK & NEWMAN INC	Conn	NAVY	RDTE/Services-Engineering Development		340
CHI SYSTEMS INC	Penn	NAVY	RDTE/Services-Engineering Development		311
COLUMBIA RESEARCH CORPORATION	Virginia	NAVY	RDTE/Services-Engineering Development		245
COMTEK RESEARCH INC	California	NAVY	RDTE/Services-Engineering Development		2,105
CONTROL SYSTEMS ANALYSIS	Rhode Isld	NAVY	RDTE/Services-Engineering Development		226
CONVENTIONAL MUNITIONS SYSTEMS	Virginia	ARMY	RDTE/Services-Engineering Development		835
DAEDALEAN INC	Maryland	NAVY	RDTE/Services-Engineering Development		68
	Virginia	NAVY	RDTE/Services-Engineering Development		600
CONTRACTOR TOTAL					668
DATA DESIGN LABORATORIES	Conn	NAVY	RDTE/Services-Engineering Development		130
DIVERSIFIED ENGINEERING INC	Virginia	USAF	RDTE/Services-Engineering Development		249
DYNAMICS RESEARCH CORPORATION	Mass	USAF	RDTE/Services-Engineering Development		75
DYNAMICS TECHNOLOGY	California	NAVY	RDTE/Services-Engineering Development		164
EG&G WASHINGTON ANALYTICAL SVC	Conn	NAVY	RDTE/Services-Engineering Development		739
	Rhode Isld	NAVY	RDTE/Services-Engineering Development		50

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AD24 (CONTINUED)

CONTRACTOR TOTAL	Virginia	NAVY	RDTE/Services-Engineering Development	\$	482
FLORIDA ATLANTIC UNIVERSITY	Florida	NAVY	RDTE/Services-Engineering Development		1,271
FOSTER MILLER INC	Mass	ARMY	RDTE/Services-Engineering Development		33
FRONTIER ENGINEERING INC	Oklahoma	USAF	RDTE/Services-Engineering Development		128
GEMMA CORPORATION	Penn	NAVY	RDTE/Services-Engineering Development		167
GENERAL DYNAMICS CORPORATION	Conn	NAVY	RDTE/Services-Engineering Development		58
	Rhode Isld	NAVY	RDTE/Services-Engineering Development		456
	Texas	USAF	RDTE/Services-Engineering Development		200
CONTRACTOR TOTAL					1,511
GENERAL ELECTRIC COMPANY	New Jersey	NAVY	RDTE/Services-Engineering Development		2,167
	New York	NAVY	RDTE/Services-Engineering Development		17,703
	Penn	NAVY	RDTE/Services-Engineering Development		174
CONTRACTOR TOTAL					130
GENERAL SIGNAL CORPORATION	Mass	NAVY	RDTE/Services-Engineering Development		18,007
GEORGIA TECH RESEARCH CORP	Georgia	NAVY	RDTE/Services-Engineering Development		125
HARRIS CORPORATION	Florida	NAVY	RDTE/Services-Engineering Development		46
HUGHES AIRCRAFT COMPANY	California	NAVY	RDTE/Services-Engineering Development		1,120
HYDROSCIENCE INC	Texas	NAVY	RDTE/Services-Engineering Development		294
INTEGRATED SYSTEMS ANALYSTS	Virginia	NAVY	RDTE/Services-Engineering Development		396
INTERMETRICS INC	Penn	NAVY	RDTE/Services-Engineering Development		868
KETRON INC	Penn	NAVY	RDTE/Services-Engineering Development		2,177
KEYSTONE COMPUTER ASSOCIATES	Penn	NAVY	RDTE/Services-Engineering Development		896
LINDSEY WILLIAM C INC	Conn	NAVY	RDTE/Services-Engineering Development		1,398
					666

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD24 (CONTINUED)					
	LOCKHEED AERONAUTICAL SYS CO	California	NAVY	RDTE/Services-Engineering Development	306
	LOCKHEED SANDERS INC	New Mexico	ARMY	RDTE/Services-Engineering Development	11,065
	LOGISTICS MANAGEMENT ENGRG	California	NAVY	RDTE/Services-Engineering Development	501
		Penn	NAVY	RDTE/Services-Engineering Development	1,543
	CONTRACTOR TOTAL				2,044
	LSA INC	California	NAVY	RDTE/Services-Engineering Development	1,714
	MANAGEMENT CONSULTING & RES	Ohio	USAF	RDTE/Services-Engineering Development	758
	MANTECH INTERNATIONAL CORP	Penn	NAVY	RDTE/Services-Engineering Development	270
	MAR INCORPORATED	Maryland	NAVY	RDTE/Services-Engineering Development	725
	MARTIN MARIETTA CORPORATION	Maryland	NAVY	RDTE/Services-Engineering Development	106
	MCDONNELL DOUGLAS CORPORATION	Missouri	NAVY	RDTE/Services-Engineering Development	72
		USAF	USAF	RDTE/Services-Engineering Development	33
	STATE TOTAL				105
	MCDONNELL DOUGLAS SPACE SYS CO	California	ARMY	RDTE/Services-Engineering Development	52
			NAVY	RDTE/Services-Engineering Development	48
	STATE TOTAL				100
	MCLAUGHLIN RESEARCH CORP	Conn	NAVY	RDTE/Services-Engineering Development	84
		Rhode Isl	NAVY	RDTE/Services-Engineering Development	160
	CONTRACTOR TOTAL				244
	MICRO COMPUTER SYSTEM INC	Virginia	NAVY	RDTE/Services-Engineering Development	550
	MISSION RESEARCH CORPORATION	California	ARMY	RDTE/Services-Engineering Development	97
	MODERN TECHNOLOGIES CORP	Ohio	USAF	RDTE/Services-Engineering Development	4,325
	N K F ENGINEERING INC	Virginia	NAVY	RDTE/Services-Engineering Development	2,246
	NAVVAR INC	Penn	NAVY	RDTE/Services-Engineering Development	242
	NICHOLS RESEARCH CORPORATION	New Mexico	ARMY	RDTE/Services-Engineering Development	773

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD24 (CONTINUED)					
	OMNI ANALYSIS INC	California	NAVY	RDTE/Services-Engineering Development	27
		Conn	NAVY	RDTE/Services-Engineering Development	77
	CONTRACTOR TOTAL				104
	ORLANDO TECHNOLOGY INC	Florida	USAF	RDTE/Services-Engineering Development	240
	PACER SYSTEMS INC	Mass	NAVY	RDTE/Services-Engineering Development	100
		Penn	NAVY	RDTE/Services-Engineering Development	1,856
	CONTRACTOR TOTAL				1,956
	PRC INC	Rhode Islnd	NAVY	RDTE/Services-Engineering Development	38
		Virginia	USAF	RDTE/Services-Engineering Development	3,539
	CONTRACTOR TOTAL				3,577
	QUESTECH INC	Virginia	ARMY	RDTE/Services-Engineering Development	1,423
	R J O ENTERPRISES INC	Ohio	USAF	RDTE/Services-Engineering Development	642
	RAPIDEX INC	Mass	ARMY	RDTE/Services-Engineering Development	100
	RAYTHEON COMPANY	Rhode Islnd	NAVY	RDTE/Services-Engineering Development	60
	SACHSE ENGINEERING ASSOCIATES	California	NAVY	RDTE/Services-Engineering Development	86
	SCIENCE APPLICATIONS INTL CORP	Conn	NAVY	RDTE/Services-Engineering Development	166
	SCIENTIFIC ATLANTA INC	California	NAVY	RDTE/Services-Engineering Development	294
	SHIP RESEARCH	California	NAVY	RDTE/Services-Engineering Development	95
	SONALYSTS INC	Conn	NAVY	RDTE/Services-Engineering Development	1,072
	SPACE QUALIFIED SYSTEMS CORP	Florida	USAF	RDTE/Services-Engineering Development	330-
	SPEARS ASSOCIATES INC	Mass	NAVY	RDTE/Services-Engineering Development	613
	STRUCTURED TECHNOLOGY CORP	Conn	NAVY	RDTE/Services-Engineering Development	439
	STV ENGINEERS INC	Penn	NAVY	RDTE/Services-Engineering Development	739
	SYNETICS CORPORATION	Virginia	NAVY	RDTE/Services-Engineering Development	621

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AD24 (CONTINUED)					
	SYSCON CORPORATION	Rhode Isl	NAVY	RDTE/Services-Engineering Development	\$ 234
		Virginia	NAVY	RDTE/Services-Engineering Development	381
	CONTRACTOR TOTAL				615
	SYSTEMS ENGINEERING ASSOC CORP	Conn	NAVY	RDTE/Services-Engineering Development	45
		Rhode Isl	NAVY	RDTE/Services-Engineering Development	30
	CONTRACTOR TOTAL				75
	SYSTEMS RESOURCE MANAGEMENT	Rhode Isl	NAVY	RDTE/Services-Engineering Development	25
	T S C INC	Conn	NAVY	RDTE/Services-Engineering Development	25
	TECHNICAL EVALUATION RESEARCH	New Jersey	ARMY	RDTE/Services-Engineering Development	52-
	TECHNOLOGY RESEARCH INTL	California	NAVY	RDTE/Services-Engineering Development	64
		Ohio	NAVY	RDTE/Services-Engineering Development	36
	CONTRACTOR TOTAL				100
	TRACOR APPLIED SCIENCES INC	Conn	NAVY	RDTE/Services-Engineering Development	544
		Texas	NAVY	RDTE/Services-Engineering Development	253
	CONTRACTOR TOTAL				797
	TRW INC	Conn	NAVY	RDTE/Services-Engineering Development	498
	UNIDYNE CORPORATION	Conn	NAVY	RDTE/Services-Engineering Development	319
	UNISYS CORPORATION	California	NAVY	RDTE/Services-Engineering Development	1,740
		Penn	NAVY	RDTE/Services-Engineering Development	305
	CONTRACTOR TOTAL				2,045
	VEDA INCORPORATED	Penn	NAVY	RDTE/Services-Engineering Development	496
	VITRO CORPORATION	Maryland	NAVY	RDTE/Services-Engineering Development	102
	WHITE H P LABORATORY INC	Maryland	ARMY	RDTE/Services-Engineering Development	346
	R&D TOTAL				117,122

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD25	ADVANCED CMBT SYSTM ENGRG	Virginia	NAVY	RDTE/Services-Operational Systems Developm	1,070
	ADVANCE INCORPORATED	Virginia	NAVY	RDTE/Services-Operational Systems Developm	2,332
	ADVANCED TECHNOLOGY & RESEARCH	Maryland	NAVY	RDTE/Services-Operational Systems Developm	1,290
	AEPCO INC	Maryland	NAVY	RDTE/Services-Operational Systems Developm	250
	ALPHATECH INC	Mass	NAVY	RDTE/Services-Operational Systems Developm	525
	ANALYSIS & TECHNOLOGY INC	Conn	NAVY	RDTE/Services-Operational Systems Developm	676
		Virginia	NAVY	RDTE/Services-Operational Systems Developm	174
	CONTRACTOR TOTAL				850
	ANALYTIC SCIENCE CORP THE	Ohio	USAF	RDTE/Services-Operational Systems Developm	228
	ARINC RESEARCH CORPORATION	Ohio	USAF	RDTE/Services-Operational Systems Developm	2,065
	ARMTEC DEFENSE PRODUCTS CO	California	ARMY	RDTE/Services-Operational Systems Developm	86
	ATLANTIC RESEARCH CORPORATION	Ohio	USAF	RDTE/Services-Operational Systems Developm	483
		Virginia	NAVY	RDTE/Services-Operational Systems Developm	3,837
	CONTRACTOR TOTAL				4,320
	ATLANTIC SCIENCE & TECHNOLOGY	Penn	NAVY	RDTE/Services-Operational Systems Developm	309
	AVIALL OF TEXAS INC	Texas	ARMY	RDTE/Services-Operational Systems Developm	438
	BDM INTERNATIONAL INC	New Mexico	USAF	RDTE/Services-Operational Systems Developm	800
		Virginia	NAVY	RDTE/Services-Operational Systems Developm	174
	CONTRACTOR TOTAL				974
	BOOZ ALLEN & HAMILTON INC	Virginia	NAVY	RDTE/Services-Operational Systems Developm	479
	CAE-LINK CORPORATION	Maryland	NAVY	RDTE/Services-Operational Systems Developm	95
	COMPUTER SCIENCES CORPORATION	New Jersey	NAVY	RDTE/Services-Operational Systems Developm	2,881
		Penn	NAVY	RDTE/Services-Operational Systems Developm	593
		Virginia	NAVY	RDTE/Services-Operational Systems Developm	16,737
	CONTRACTOR TOTAL				20,211
	COMPUTER SOFTWARE ANALYSTS	Ohio	USAF	RDTE/Services-Operational Systems Developm	119

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD25 (CONTINUED)					
	DELEX SYSTEMS INCORPORATED	Virginia	NAVY	RDTE/Services-Operational Systems Developm	1,069
	ELECTROSPACE SYSTEMS INC	Ohio	USAF	RDTE/Services-Operational Systems Developm	60
	FERRULMATIC INC	New Jersey	ARMY	RDTE/Services-Operational Systems Developm	1,289
	FRONTIER ENGINEERING INC	Oklahoma	USAF	RDTE/Services-Operational Systems Developm	780
	GENERAL ELECTRIC COMPANY	New Jersey	NAVY	RDTE/Services-Operational Systems Developm	4,847
		Virginia	NAVY	RDTE/Services-Operational Systems Developm	718
	CONTRACTOR TOTAL				5,565
	GENERAL OFFSHORE CORPORATION	Florida	NAVY	RDTE/Services-Operational Systems Developm	614
	HERITAGE REPORTING CORP	D.C.	USAF	RDTE/Services-Operational Systems Developm	32
	INTEGRATED MICROCOMPUTER SYS	Virginia	NAVY	RDTE/Services-Operational Systems Developm	2,003
	INTERMETRICS INC	Penn	ARMY	RDTE/Services-Operational Systems Developm	4,364
	JAMES C. MCCREY ASSOCS, LTC	Virginia	ARMY	RDTE/Services-Operational Systems Developm	109
	JOHNSON CONTROLS INC	Marshall I	ARMY	RDTE/Services-Operational Systems Developm	83,393
	KETRON INC	Penn	NAVY	RDTE/Services-Operational Systems Developm	189
	KEYSTONE COMPUTER ASSOCIATES	Penn	NAVY	RDTE/Services-Operational Systems Developm	494
	KRUG INTERNATIONAL CORPORATION	Ohio	USAF	RDTE/Services-Operational Systems Developm	698
	LITTON SYSTEMS INC	California	NAVY	RDTE/Services-Operational Systems Developm	289
	MANAGEMENT CONSULTING & RES	Ohio	USAF	RDTE/Services-Operational Systems Developm	1,402
	MESA SERVICES INTERNATIONAL	Utah	ARMY	RDTE/Services-Operational Systems Developm	149
	MING OF UTAH INC	Conn	NAVY	RDTE/Services-Operational Systems Developm	32
	MODERN TECHNOLOGIES CORP	New Jersey	ARMY	RDTE/Services-Operational Systems Developm	284
		Ohio	ARMY	RDTE/Services-Operational Systems Developm	230
			USAF	RDTE/Services-Operational Systems Developm	174
	STATE TOTAL				404

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD25 (CONTINUED)					
	CONTRACTOR TOTAL				
	N T L INC	Miss	NAVY	RDTE/Services-Operational Systems Developm	688
		Virginia	NAVY	RDTE/Services-Operational Systems Developm	302
	CONTRACTOR TOTAL				142
	NAT'L ASSOC OF COLL ADMSN COUN	Virginia	ARMY	RDTE/Services-Operational Systems Developm	444
	NATIONAL SYSTEMS & RESEARCH CO	Colorado	NAVY	RDTE/Services-Operational Systems Developm	28
	NEW MEXICO STATE OF	New Mexico	USAF	RDTE/Services-Operational Systems Developm	110
	PACER SYSTEMS INC	Mass	NAVY	RDTE/Services-Operational Systems Developm	831
	PLANNING CONSULTANTS INC	Virginia	NAVY	RDTE/Services-Operational Systems Developm	230
	PRC INC	Virginia	ARMY	RDTE/Services-Operational Systems Developm	1,594
			NAVY	RDTE/Services-Operational Systems Developm	2,934
					1,476
	STATE TOTAL				4,410
	PRC ORI JV	Virginia	ARMY	RDTE/Services-Operational Systems Developm	5,136
	R J O ENTERPRISES INC	Maryland	USAF	RDTE/Services-Operational Systems Developm	350
		Ohio	USAF	RDTE/Services-Operational Systems Developm	654
	CONTRACTOR TOTAL				1,004
	RAYTHEON COMPANY	New York	USAF	RDTE/Services-Operational Systems Developm	172
	RESOURCE CONSULTANTS INC	Virginia	NAVY	RDTE/Services-Operational Systems Developm	604
	S T SYSTEMS CORPORATION	Maryland	NAVY	RDTE/Services-Operational Systems Developm	356
	SCIENCE APPLICATIONS INTL CORP	Arizona	ARMY	RDTE/Services-Operational Systems Developm	129
		Conn	NAVY	RDTE/Services-Operational Systems Developm	32
	CONTRACTOR TOTAL				161
	SIMMS INDUSTRIES INC	Virginia	NAVY	RDTE/Services-Operational Systems Developm	986
	SONALYSTS INC	Conn	NAVY	RDTE/Services-Operational Systems Developm	527
	STEVENS INST OF TECHNOLOGY	New Jersey	ARMY	RDTE/Services-Operational Systems Developm	96

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD25 (CONTINUED)					
	STRATGIC FINANCIAL PLG SYSTEMS	Virginia	NAVY	RDTE/Services-Operational Systems Developm	619
	STRUCTURED TECHNOLOGY CORP	Conn	NAVY	RDTE/Services-Operational Systems Developm	122
	SUMMIT RESEARCH CORPORATION	Virginia	NAVY	RDTE/Services-Operational Systems Developm	55
	SVERDRUP TECHNOLOGY INC	Ohio	USAF	RDTE/Services-Operational Systems Developm	2,593
		Tennessee	USAF	RDTE/Services-Operational Systems Developm	133
	CONTRACTOR TOTAL				2,726
	SYNETICS CORPORATION	Virginia	NAVY	RDTE/Services-Operational Systems Developm	122
	SYSCON CORPORATION	Conn	NAVY	RDTE/Services-Operational Systems Developm	90
		Virginia	NAVY	RDTE/Services-Operational Systems Developm	10,321
	CONTRACTOR TOTAL				10,411
	SYSTEMS RES APPLICATIONS CORP	Virginia	ARMY	RDTE/Services-Operational Systems Developm	137
	TRW INC	Ohio	USAF	RDTE/Services-Operational Systems Developm	26,701
	TWIN CITY TECHNICAL CASTINGS	Minnesota	USAF	RDTE/Services-Operational Systems Developm	38
	UNISYS CORPORATION	Penn	NAVY	RDTE/Services-Operational Systems Developm	1,814
		Virginia	NAVY	RDTE/Services-Operational Systems Developm	305
	CONTRACTOR TOTAL				2,119
	VEDA INCORPORATED	Penn	NAVY	RDTE/Services-Operational Systems Developm	567
		Virginia	NAVY	RDTE/Services-Operational Systems Developm	333
	CONTRACTOR TOTAL				900
	VITRC CORPORATION	Virginia	NAVY	RDTE/Services-Operational Systems Developm	1,044
	WALLACE & COMPANY	Indiana	USAF	RDTE/Services-Operational Systems Developm	128
	WESTINGHOUSE ELECTRIC CORP	Florida	NAVY	RDTE/Services-Operational Systems Developm	84
	WHITTAKER CORPORATION	California	ARMY	RDTE/Services-Operational Systems Developm	652
	ZEGER ABRAMS INCORPORATED	Penn	NAVY	RDTE/Services-Operational Systems Developm	55

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
	R&D TOTAL				201,462
AD26	ADVANCED TECHNOLOGY & RESEARCH	Maryland	NAVY	RDTE/Services-Management & Support	56
	AEPCO INC	Maryland	NAVY	RDTE/Services-Management & Support	50
	AMERICAN SUPERCONDUCTOR CORP	Conn	NAVY	RDTE/Services-Management & Support	450
		Mass	NAVY	RDTE/Services-Management & Support	300
	CONTRACTOR TOTAL				750
	AMHERST SYSTEMS INC	New York	USAF	RDTE/Services-Management & Support	118
	ANALYSIS & TECHNOLOGY INC	Rhode Isld	NAVY	RDTE/Services-Management & Support	50
	ANALYTIC SCIENCE CORP THE	Mass	USAF	RDTE/Services-Management & Support	1,958
		Ohio	USAF	RDTE/Services-Management & Support	6,309
	CONTRACTOR TOTAL				8,267
	ANALYTIC SERVICES INC	Colorado	USAF	RDTE/Services-Management & Support	1,196
	ANALYTICAL SYSTEMS ENGRG CORP	Mass	NAVY USAF	RDTE/Services-Management & Support RDTE/Services-Management & Support	1,189 181-
	STATE TOTAL				1,008
		Rhode Isld	NAVY	RDTE/Services-Management & Support	85
		Virginia	NAVY	RDTE/Services-Management & Support	37
	CONTRACTOR TOTAL				1,130
	BDM INTERNATIONAL INC	Virginia	NAVY	RDTE/Services-Management & Support	326
	BELTRAN ASSOCIATES INC	New York	NAVY	RDTE/Services-Management & Support	50
	CAMBRIDGE ACOUSTICAL ASSOC	Mass	NAVY	RDTE/Services-Management & Support	183
	COMPUTER SCIENCES CORPORATION	Florida	USAF	RDTE/Services-Management & Support	4,653
	CRAFTSMEN CORP	New York	ARMY	RDTE/Services-Management & Support	359
	DUAL & ASSOCIATES INC	Virginia	NAVY	RDTE/Services-Management & Support	2,249
	E M I TECHNOLOGIES INC	New Mexico	ARMY	RDTE/Services-Management & Support	212

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD26 (CONTINUED)					
	EAGLE TECHNOLOGY INC	Virginia	ARMY	RDTE/Services-Management & Support	6,784
	ENERGY COMPRESSION RES CORP	California	NAVY	RDTE/Services-Management & Support	55
	FOSTER MILLER INC	Mass	NAVY	RDTE/Services-Management & Support	108
	GENERAL ELECTRIC COMPANY	Marshall I	ARMY	RDTE/Services-Management & Support	24,590
	GENERAL RESEARCH CORPORATION	California	USAF	RDTE/Services-Management & Support	360
	GTE GOVERNMENT SYSTEMS CORP	Marshall I	ARMY	RDTE/Services-Management & Support	13,783
	HILTON SYSTEMS INC	Alabama	ARMY	RDTE/Services-Management & Support	3,320
	HUMAN RSRCES RES ORGANIZATION	Virginia	ARMY	RDTE/Services-Management & Support	169
	INTERMETRICS INC	Penn	ARMY	RDTE/Services-Management & Support	370
	ISERA GROUP	California	NAVY	RDTE/Services-Management & Support	47
	KALSI ENGINEERING INCORPORATED	Texas	NAVY	RDTE/Services-Management & Support	50
	KENROB & ASSOCIATES INC	Virginia	NAVY	RDTE/Services-Management & Support	94
	LTV AEROSPACE & DEFENSE CO	Texas	USAF	RDTE/Services-Management & Support	422
	MANAGEMENT CONSULTING & RES	Ohio	USAF	RDTE/Services-Management & Support	340
	MAR INCORPORATED	Florida	NAVY	RDTE/Services-Management & Support	3,370
	MASSA PRODUCTS CORPORATION	Mass	NAVY	RDTE/Services-Management & Support	49
	MCDONNELL DOUGLAS CORPORATION	Missouri	USAF	RDTE/Services-Management & Support	2,777
	MCDONNELL DOUGLAS HELICOPTER	Arizona	ARMY	RDTE/Services-Management & Support	662
	MCLAUGHLIN RESEARCH CORP	Rhode Isld	NAVY	RDTE/Services-Management & Support	35
	METROLASER	California	NAVY	RDTE/Services-Management & Support	50
			USAF	RDTE/Services-Management & Support	464
		STATE TOTAL			514
	MICRILOR INC	Mass	NAVY	RDTE/Services-Management & Support	454
	NAVVAR INC	Penn	NAVY	RDTE/Services-Management & Support	360

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD26 (CONTINUED)					
	NEW MEXICO STATE UNIVERSITY	New Mexico	ARMY	RDTE/Services-Management & Support	3,439
	NEW TECHNOLOGY SUPPORT SVCS	California	NAVY	RDTE/Services-Management & Support	116
	NORTH DAKOTA STATE UNIVERSITY	N Dakota	USAF	RDTE/Services-Management & Support	230
	ORINCON CORPORATION	California	NAVY	RDTE/Services-Management & Support	486
	PAI CORPORATION	Tennessee	NAVY	RDTE/Services-Management & Support	50
	PHELPS PROTECTION SYSTEMS INC	Maryland	NAVY	RDTE/Services-Management & Support	102
	PINNACLE RESEARCH INSTITUTE	California	USAF	RDTE/Services-Management & Support	90
	PRODUCT PLANNING INC	Illinois	NAVY	RDTE/Services-Management & Support	50
	RADIX SYSTEMS INC	Maryland	NAVY	RDTE/Services-Management & Support	50
	RAYTHEON COMPANY	Mass	NAVY	RDTE/Services-Management & Support	254
	S S S ENGINEERING INC	New Mexico	NAVY	RDTE/Services-Management & Support	50
	S W L INC	Virginia	NAVY	RDTE/Services-Management & Support	392-
	SCHLUMBERGER TECHNOLOGY CORP	Michigan	USAF	RDTE/Services-Management & Support	124
	SCHWARTZ ELECTRO-OPTICS INC	Florida	NAVY	RDTE/Services-Management & Support	49
	SCIENCE & TECHNOLOGY CORP	Virginia	ARMY	RDTE/Services-Management & Support	1,004
	SOFTTECH INC	Mass	USAF	RDTE/Services-Management & Support	489
	SURFACE OPTICS CORP	California	USAF	RDTE/Services-Management & Support	437
	SYSTEMS RESOURCE MANAGEMENT	Rhode Isl	NAVY	RDTE/Services-Management & Support	96
	TAU CORPORATION	California	NAVY	RDTE/Services-Management & Support	53
	TECHNICAL & MGT SVCS CORP	New Jersey	ARMY	RDTE/Services-Management & Support	1,122
	TECHNICAL DOCUMENTATION INC	Penn	NAVY	RDTE/Services-Management & Support	92
	TECOLOTE RESEARCH INC	Ohio	USAF	RDTE/Services-Management & Support	620
	TETRA CORPORATION	New Mexico	NAVY	RDTE/Services-Management & Support	55
	TEXAS INSTRUMENTS INC	Texas	NAVY	RDTE/Services-Management & Support	209

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD26 (CONTINUED)					
	TRACOR APPLIED SCIENCES INC	Maryland	ARMY	RDTE/Services-Management & Support	262
	TRW INC	Virginia	NAVY	RDTE/Services-Management & Support	2,315
	UNIVERSAL TECHNOLOGY CORP	Ohio	USAF	RDTE/Services-Management & Support	2,396
	UNIVERSITY OF FLORIDA	Florida	USAF	RDTE/Services-Management & Support	400
	UTAH BIORESEARCH INC	Conn	NAVY	RDTE/Services-Management & Support	55
	VITRO CORPORATION	Maryland	NAVY	RDTE/Services-Management & Support	100
	WESTAR CORPORATION	New Mexico	ARMY	RDTE/Services-Management & Support	1,958
	WESTINGHOUSE ELECTRIC CORP	Penn	USAF	RDTE/Services-Management & Support	245
	XEMET INC	Conn	NAVY	RDTE/Services-Management & Support	52
	R&D TOTAL				95,020
AD33 SYSTEM PLANNING CORPORATION					
	TECHNOLOGY ASSSSMENT TRANSF INC	California	NAVY	RDTE/Subsistence-Advanced Development	315
	TRACOR APPLIED SCIENCES INC	Maryland	ARMY	RDTE/Subsistence-Advanced Development	71
		Texas	NAVY	RDTE/Subsistence-Advanced Development	4,990
	R&D TOTAL				5,376
AD35 UNIDYNE CORPORATION					
	ALBANY INTERNATIONAL CORP	Conn	NAVY	RDTE/Subsistence-Operational Systems Devel	43
	FOSTER MILLER INC	Mass	ARMY	RDTE/Textiles, Clothing, Equipage-Basic Re	85
	HLA ENGINEERS INC	Mass	ARMY	RDTE/Textiles, Clothing, Equipage-Basic Re	64
	INTERNATIONAL BUS MCHS CORP	Texas	ARMY	RDTE/Textiles, Clothing, Equipage-Basic Re	105
	LAIVAN CORPORATION	New York	NAVY	RDTE/Textiles, Clothing, Equipage-Basic Re	78
	NORTH CAROLINA STATE UNIV	New York	ARMY	RDTE/Textiles, Clothing, Equipage-Basic Re	34
	TDA RESEARCH INC	N Carolina	ARMY	RDTE/Textiles, Clothing, Equipage-Basic Re	188
	TECOGEN INC	Colorado	ARMY	RDTE/Textiles, Clothing, Equipage-Basic Re	58
	UNIVERSITY OF TENNESSEE	Mass	ARMY	RDTE/Textiles, Clothing, Equipage-Basic Re	97
		Tennessee	ARMY	RDTE/Textiles, Clothing, Equipage-Basic Re	41

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
	R&D TOTAL				750
AD42	A A I CORPORATION	Maryland	ARMY	RDTE/Textiles, Clothing, Equipage-Explor D	10,246
	ADVANCED MATERIALS INC	Louisiana	ARMY	RDTE/Textiles, Clothing, Equipage-Explor D	245
	AERONAUTIC RSCH ASSN PRINCETON	New Jersey	ARMY	RDTE/Textiles, Clothing, Equipage-Explor D	123
	ALLIED SIGNAL INC	New Jersey	ARMY	RDTE/Textiles, Clothing, Equipage-Explor D	127
	AUBURN UNIVERSITY	Alabama	ARMY	RDTE/Textiles, Clothing, Equipage-Explor D	85
	CHEMFAB NEW YORK INC	New York	ARMY	RDTE/Textiles, Clothing, Equipage-Explor D	677
	CLEMSON UNIVERSITY	S Carolina	ARMY	RDTE/Textiles, Clothing, Equipage-Explor D	89
	CORNELL UNIVERSITY	New York	NAVY	RDTE/Textiles, Clothing, Equipage-Explor D	120
	DYNAMIC SCIENCE INC	Arizona	ARMY	RDTE/Textiles, Clothing, Equipage-Explor D	49-
	FOSTER MILLER INC	Mass	ARMY	RDTE/Textiles, Clothing, Equipage-Explor D	340
	GENERAL ELECTRIC COMPANY	Ohio	USAF	RDTE/Textiles, Clothing, Equipage-Explor D	260
	HUGHES AIRCRAFT COMPANY	California	NAVY	RDTE/Textiles, Clothing, Equipage-Explor D	750
	I I T RESEARCH INSTITUTE	Illinois	ARMY	RDTE/Textiles, Clothing, Equipage-Explor D	35
	ILLUSION ENGINEERING INC	California	ARMY	RDTE/Textiles, Clothing, Equipage-Explor D	220
	LITTLE ARTHUR D INC	Mass	ARMY	RDTE/Textiles, Clothing, Equipage-Explor D	335
	MARTIN MARIETTA CORPORATION	Maryland	NAVY	RDTE/Textiles, Clothing, Equipage-Explor D	160
	MINNESOTA MINING & MFG CO	Minnesota	ARMY	RDTE/Textiles, Clothing, Equipage-Explor D	45
	NORTHEASTERN UNIVERSITY CORP	Mass	ARMY	RDTE/Textiles, Clothing, Equipage-Explor D	65
	OPTICAL SHIELDS LIMITED	California	NAVY	RDTE/Textiles, Clothing, Equipage-Explor D	482
	ORCON CORPORATION	California	ARMY	RDTE/Textiles, Clothing, Equipage-Explor D	49
	ROCHESTER INST OF TECHNOLOGY	New York	ARMY	RDTE/Textiles, Clothing, Equipage-Explor D	55
	ROCKWELL INTERNATIONAL CORP	California	NAVY	RDTE/Textiles, Clothing, Equipage-Explor D	220
	SPRINGS INDUSTRIES INC	S Carolina	ARMY	RDTE/Textiles, Clothing, Equipage-Explor D	94
	SRI INTERNATIONAL	California	NAVY	RDTE/Textiles, Clothing, Equipage-Explor D	391

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CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD42 (CONTINUED)				
UNIVERSITY OF DAYTON INC	Ohio	NAVY	RDTE/Textiles, Clothing, Equipage-Explor D	548
WORCESTER PLTYCHNIC INSTITUTE	Mass	ARMY	RDTE/Textiles, Clothing, Equipage-Explor D	100
R&D TOTAL				15,812
AD43 ASPEN SYSTEMS INC	Mass	ARMY	RDTE/Textiles, Clothing, Equipage-Advanced	40
BOEING COMPANY THE	Washington	USAF	RDTE/Textiles, Clothing, Equipage-Advanced	1,027
CHEMFAB NEW YORK INC	New York	ARMY	RDTE/Textiles, Clothing, Equipage-Advanced	37
FOSTER MILLER INC	Mass	ARMY	RDTE/Textiles, Clothing, Equipage-Advanced	300
FTL ASSOCIATES INC	New York	ARMY	RDTE/Textiles, Clothing, Equipage-Advanced	261
GEOMET INC	Maryland	ARMY	RDTE/Textiles, Clothing, Equipage-Advanced	2,232
HOLOGRAPHIC OPTICS INC	New York	NAVY	RDTE/Textiles, Clothing, Equipage-Advanced	150
ILC DOVER	Delaware	NAVY	RDTE/Textiles, Clothing, Equipage-Advanced	96
MECHANICAL TECHNOLOGY INC	New York	ARMY	RDTE/Textiles, Clothing, Equipage-Advanced	530
METRIC SYSTEMS CORPORATION	Florida	ARMY	RDTE/Textiles, Clothing, Equipage-Advanced	110
MINE SAFETY APPLIANCES CO	Penn	NAVY	RDTE/Textiles, Clothing, Equipage-Advanced	354
S TRON	California	ARMY	RDTE/Textiles, Clothing, Equipage-Advanced	1,425
SACH SINHA & ASSOCIATES	California	ARMY	RDTE/Textiles, Clothing, Equipage-Advanced	131
UNISYS CORPORATION	Utah	NAVY	RDTE/Textiles, Clothing, Equipage-Advanced	262
R&D TOTAL				6,955
AD44 AMERICAN TECHNOLOGY CORP.	Maryland	ARMY	RDTE/Textiles, Clothing, Equipage-Engr Dev	431
AUBURN UNIVERSITY	Alabama	NAVY	RDTE/Textiles, Clothing, Equipage-Engr Dev	116
BALL CORPORATION	California	ARMY	RDTE/Textiles, Clothing, Equipage-Engr Dev	50
CUSTOM MOLDERS INC	N Carolina	ARMY	RDTE/Textiles, Clothing, Equipage-Engr Dev	647
DIVING UNLIMITED INTERNATIONAL	California	NAVY	RDTE/Textiles, Clothing, Equipage-Engr Dev	214
GUILD ASSOCIATES INC	Ohio	ARMY	RDTE/Textiles, Clothing, Equipage-Engr Dev	460

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AD44 (CONTINUED)					
	MISSION RESEARCH CORPORATION	California	ARMY	RDTE/Textiles, Clothing, Equipage-Engr Dev	\$ 244
	NEW MEXICO STATE UNIVERSITY	New Mexico	ARMY	RDTE/Textiles, Clothing, Equipage-Engr Dev	1,042
	S TRON	California	ARMY	RDTE/Textiles, Clothing, Equipage-Engr Dev	286
	STV ENGINEERS INC	Penn	NAVY	RDTE/Textiles, Clothing, Equipage-Engr Dev	349
	WICKES MANUFACTURING COMPANY	California	USAF	RDTE/Textiles, Clothing, Equipage-Engr Dev	75
	R&D TOTAL				3,914
AD45	GEO CENTERS INC	Mass	ARMY	RDTE/Textiles, Clothing, Equipage-Op Syste	4,084
	MOLECULAR TECH INC	Mass	ARMY	RDTE/Textiles, Clothing, Equipage-Op Syste	54
	R&D TOTAL				4,138
AD46	MAINSTREAM ENGINEERING CO INC	Florida	ARMY	RDTE/Textiles, Clothing, Equipage-Mgmt & S	51
	MILITARY FOOD MARKETING ASSOC.	California	ARMY	RDTE/Textiles, Clothing, Equipage-Mgmt & S	35
	R&D TOTAL				86
AD51	A A I CORPORATION	Maryland	NAVY	RDTE/Fuels and Lubricants-Basic Research	405
	BATTELLE MEMORIAL INSTITUTE	Ohio	USAF	RDTE/Fuels and Lubricants-Basic Research	70
	MECHANICAL TECHNOLOGY INC	New York	NAVY	RDTE/Fuels and Lubricants-Basic Research	75
	OHIO STATE UNIVERSITY	Ohio	USAF	RDTE/Fuels and Lubricants-Basic Research	92
	SONEX RESEARCH INC	Maryland	ARMY	RDTE/Fuels and Lubricants-Basic Research	49
	SOUTHWEST RESEARCH INSTITUTE	Texas	ARMY	RDTE/Fuels and Lubricants-Basic Research	116
	SRI INTERNATIONAL	California	USAF	RDTE/Fuels and Lubricants-Basic Research	170
	UNIVERSITY OF DAYTON INC	Ohio	USAF	RDTE/Fuels and Lubricants-Basic Research	71
	R&D TOTAL				1,048
AD52	CCS ASSOCIATES	Penn	USAF	RDTE/Fuels and Lubricants-Exploratory Deve	75
	G. S. ENGINEERING & MACHINE	Nevada	ARMY	RDTE/Fuels and Lubricants-Exploratory Deve	49
	GENERAL ELECTRIC COMPANY	Ohio	USAF	RDTE/Fuels and Lubricants-Exploratory Deve	196

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD52 (CONTINUED)					
	HOWARD UNIVERSITY	D. C.	USAF	RDTE/Fuels and Lubricants-Exploratory Deve	45
	MATERIAL & ELECTROCHEMICAL RES	Arizona	NAVY	RDTE/Fuels and Lubricants-Exploratory Deve	50
	MCDONNELL DOUGLAS CORPORATION	Missouri	USAF	RDTE/Fuels and Lubricants-Exploratory Deve	148
	MECHANICAL TECHNOLOGY INC	Ohio	USAF	RDTE/Fuels and Lubricants-Exploratory Deve	360
	PHOENIX CHEMICAL LABORATORY	Illinois	USAF	RDTE/Fuels and Lubricants-Exploratory Deve	48
	SOUTHWEST RESEARCH INSTITUTE	Texas	ARMY	RDTE/Fuels and Lubricants-Exploratory Deve	75
	SPIRE CORPORATION	Mass	USAF	RDTE/Fuels and Lubricants-Exploratory Deve	52
	UNITED TECHNOLOGIES CORP	California	USAF	RDTE/Fuels and Lubricants-Exploratory Deve	37
		Conn	USAF	RDTE/Fuels and Lubricants-Exploratory Deve	110
		Florida	USAF	RDTE/Fuels and Lubricants-Exploratory Deve	325
		Ohio	USAF	RDTE/Fuels and Lubricants-Exploratory Deve	1,420
	CONTRACTOR TOTAL				1,892
	UNIVERSITY OF DAYTON INC	Ohio	USAF	RDTE/Fuels and Lubricants-Exploratory Deve	1,403
	WILLIAMS INTERNATIONAL CORP	Michigan	USAF	RDTE/Fuels and Lubricants-Exploratory Deve	520
	R&D TOTAL				4,913
AD53	PITTSBURGH APPLIED RESEARCH CO	Penn	NAVY	RDTE/Fuels and Lubricants-Advanced Develop	50
	SOUTHWEST RESEARCH INSTITUTE	Texas	ARMY	RDTE/Fuels and Lubricants-Advanced Develop	2,470
	R&D TOTAL				2,520
AD54	SOUTHWEST RESEARCH INSTITUTE	Texas	ARMY	RDTE/Fuels and Lubricants-Engr Development	125
AD55	TEXAS RESEARCH INTERNATIONAL	Texas	ARMY	RDTE/Fuels and Lubricants-Operational Syst	50
AD56	ACCELL CATALYSIS INC	Iowa	USAF	RDTE/Fuels and Lubricants-Management & Sup	160
	DESILUBE TECHNOLOGY INC	Penn	USAF	RDTE/Fuels and Lubricants-Management & Sup	250
	R&D TOTAL				410
AD61	CARNEGIE MELLON UNIVERSITY	Penn	NAVY	RDTE/Construction-Basic Research	30

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD61 (CONTINUED)					
	ESL INCORPORATED	California	ARMY	RDTE/Construction-Basic Research	250
	GEO SERVICES INC	Georgia	USAF	RDTE/Construction-Basic Research	160
	MCDONNELL DOUGLAS CORPORATION	Florida	ARMY	RDTE/Construction-Basic Research	1,022
	SCIENCE APPLICATIONS INTL CORP	Virginia	ARMY	RDTE/Construction-Basic Research	95
	R&D TOTAL				1,557
AD62	CANADIAN COMMERCIAL CORP	CANADA	NAVY	RDTE/Construction-Exploratory Development	79-
	G & F COMPANY	California	ARMY	RDTE/Construction-Exploratory Development	10,000
	HORIZONS TECHNOLOGY INC	California	ARMY	RDTE/Construction-Exploratory Development	174
	MARTIN MARIETTA CORPORATION	Maryland	ARMY	RDTE/Construction-Exploratory Development	148
	MIDWEST RESEARCH INSTITUTE	Missouri	ARMY	RDTE/Construction-Exploratory Development	55
	MODERN TECHNOLOGIES CORP	Ohio	ARMY	RDTE/Construction-Exploratory Development	2,593
	SCIENCE APPLICATIONS INTL CORP	D.C.	NAVY	RDTE/Construction-Exploratory Development	904
	TECHNICAL DOCUMENTATION INC	Penn	NAVY	RDTE/Construction-Exploratory Development	200
	TELEDYNE INDUSTRIES INC	Texas	ARMY	RDTE/Construction-Exploratory Development	1,294
	TRW INC	California	NAVY	RDTE/Construction-Exploratory Development	148
	UNIVERSITY OF SOUTHERN CALIF	California	ARMY	RDTE/Construction-Exploratory Development	250
	R&D TOTAL				15,687
AD63	BOLT BERANEK & NEWMAN INC	Mass	NAVY	PDTE/Construction-Advanced Development	266
		Rhode Isl	NAVY	RDTE/Construction-Advanced Development	610
	CONTRACTOR TOTAL				876
	DYNAMICS TECHNOLOGY	California	NAVY	RDTE/Construction-Advanced Development	100
	HYDROACOUSTICS INC	New York	NAVY	RDTE/Construction-Advanced Development	505
	SYRACUSE UNIVERSITY	New York	USAF	RDTE/Construction-Advanced Development	321
	TRW INC	California	NAVY	RDTE/Construction-Advanced Development	140

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
	R&D TOTAL				
AD64	DBA SYSTEMS INC	Florida	ARMY	RDTE/Construction-Engineering Development	1,942
	LORAL CORPORATION	California	USAF	RDTE/Construction-Engineering Development	2,474
	MAC AULAY BROWN INC	Ohio	USAF	RDTE/Construction-Engineering Development	100
	SOUTHWEST RESEARCH INSTITUTE	Texas	USAF	RDTE/Construction-Engineering Development	26-
	R&D TOTAL				200
					2,748
AD65	CANON USA INC	Virginia	ARMY	RDTE/Construction-Operational Systems Deve	397
	I I T RESEARCH INSTITUTE	Illinois	ARMY	RDTE/Construction-Operational Systems Deve	330
	JOAQUIN MFG CORP	Colorado	NAVY	RDTE/Construction-Operational Systems Deve	37
	PACIFIC SIERRA RESEARCH CORP	New Mexico	ARMY	RDTE/Construction-Operational Systems Deve	41
	PITT DES MOINES INC	D.C.	NAVY	RDTE/Construction-Operational Systems Deve	53
		Penn	NAVY	RDTE/Construction-Operational Systems Deve	262-
	CONTRACTOR TOTAL				209-
					93
	UNISYS CORPORATION	Virginia	NAVY	RDTE/Construction-Operational Systems Deve	1,040
	VITRO CORPORATION	Penn	NAVY	RDTE/Construction-Operational Systems Deve	1,729
	R&D TOTAL				72-
AD66	JAYCOR	Virginia	NAVY	RDTE/Construction-Management & Support	219
	LOCUS INC	Penn	NAVY	RDTE/Construction-Management & Support	131
	SABRE SYSTEMS INC	Penn	NAVY	RDTE/Construction-Management & Support	278
	R&D TOTAL				75
AD91	A P A OPTICS INC	Minnesota	NAVY	RDTE/Other Defense-Basic Research	50
	A T S S INC	California	NAVY	RDTE/Other Defense-Basic Research	50
	ABARIS	Nevada	ARMY	RDTE/Other Defense-Basic Research	150
	ACCURATE AUTOMATION CORPORATIO	Tennessee	NAVY	RDTE/Other Defense-Basic Research	250
	ADVANCED DECISION SYSTEMS	California	NAVY	RDTE/Other Defense-Basic Research	

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD91 (CONTINUED)					
	ADVANCED FUEL RESEARCH INC	Conn	NAVY	RDTE/Other Defense-Basic Research	55
	ADVANCED RESOURCE DEV CORP	Maryland	NAVY	RDTE/Other Defense-Basic Research	244
	ADVANCED TECHNOLOGY MATERIALS	Conn	NAVY	RDTE/Other Defense-Basic Research	972
	AEL DEFENSE CORP	Penn	NAVY	RDTE/Other Defense-Basic Research	553
	AERODYNE RESEARCH INC	Mass	NAVY	RDTE/Other Defense-Basic Research	474
		New Jersey	NAVY	RDTE/Other Defense-Basic Research	184
	CONTRACTOR TOTAL				658
	AEROJET	California	NAVY	RDTE/Other Defense-Basic Research	257
	ALABAMA A & M UNIVERSITY	Alabama	ARMY	RDTE/Other Defense-Basic Research	103
	ALFAB INC	Alabama	ARMY	RDTE/Other Defense-Basic Research	165
	ALLIANT TECHSYSTEMS INC	Virginia	NAVY	RDTE/Other Defense-Basic Research	500
		Washington	NAVY	RDTE/Other Defense-Basic Research	115
	CONTRACTOR TOTAL				615
	ALLIED SIGNAL AEROSPACE CO	California	NAVY	RDTE/Other Defense-Basic Research	300
		D.C.	NAVY	RDTE/Other Defense-Basic Research	1,589
		Maryland	NAVY	RDTE/Other Defense-Basic Research	2,262
	CONTRACTOR TOTAL				4,151
	ALLIED SIGNAL INC	Illinois	NAVY	RDTE/Other Defense-Basic Research	168
		Maryland	NAVY	RDTE/Other Defense-Basic Research	617
	CONTRACTOR TOTAL				785
	ALUMINUM COMPANY OF AMERICA	Penn	NAVY	RDTE/Other Defense-Basic Research	200
	AMERICAN FOUNDATION	Maryland	NAVY	RDTE/Other Defense-Basic Research	32
	AMERICAN INST BIOLOGCL SCIENCE	D.C.	NAVY	RDTE/Other Defense-Basic Research	30
	AMERICAN MATRIX INC	Tennessee	NAVY	RDTE/Other Defense-Basic Research	54

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
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AD91 (CONTINUED)

AMERICAN SOCIETIES FOR EXP BIO	Maryland	NAVY	RDTE/Other Defense-Basic Research		195
AMERICAN TELEPHONE & TELG CO	New Jersey	ARMY	RDTE/Other Defense-Basic Research		2,381
		NAVY	RDTE/Other Defense-Basic Research		184
STATE TOTAL					2,565
CONTRACTOR TOTAL					200
AMHERST SYSTEMS INC	New Mexico	NAVY	RDTE/Other Defense-Basic Research		13,471
	N Carolina	NAVY	RDTE/Other Defense-Basic Research		16,236
STATE TOTAL					358
CONTRACTOR TOTAL					2,000
AMOCO CHEMICAL CO	Georgia	NAVY	RDTE/Other Defense-Basic Research		167
AMRON CORPORATION	Virginia	NAVY	RDTE/Other Defense-Basic Research		56
ANACAPA SCIENCES INC	California	ARMY	RDTE/Other Defense-Basic Research		160
ANALYSIS & TECHNOLOGY INC	Conn	NAVY	RDTE/Other Defense-Basic Research		328
	Miss	NAVY	RDTE/Other Defense-Basic Research		488
CONTRACTOR TOTAL					50
ANALYTIC POWER CORP	Mass	USAF	RDTE/Other Defense-Basic Research		617
ANALYTIC SCIENCE CORP THE	Mass	USAF	RDTE/Other Defense-Basic Research		52
APPLIED ANALYSIS INC	Mass	USAF	RDTE/Other Defense-Basic Research		150
APPLIED MATHEMATICS INC	Conn	NAVY	RDTE/Other Defense-Basic Research		140
APPLIED RESEARCH CORPORATION	Maryland	NAVY	RDTE/Other Defense-Basic Research		243
APPLIED TCHNOLOGY ASSOC INC DEL	California	NAVY	RDTE/Other Defense-Basic Research		50
APPLIED TECHNOLOGY	Virginia	USAF	RDTE/Other Defense-Basic Research		2,785
ARETE ASSOCIATES	California	NAVY	RDTE/Other Defense-Basic Research		

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AD91 (CONTINUED)					
	ARIZONA STATE UNIVERSITY	Arizona	NAVY	RDTE/Other Defense-Basic Research	\$ 131
	ASSOC OF CAPE COD	Mass	NAVY	RDTE/Other Defense-Basic Research	112
	ASSOCIATED UNIVERSITIES INC	New York	NAVY	RDTE/Other Defense-Basic Research	381
	ASSURANCE TECHNOLOGY CORP	Florida	NAVY	RDTE/Other Defense-Basic Research	68
		Mass	NAVY	RDTE/Other Defense-Basic Research	15,508
		Virginia	NAVY	RDTE/Other Defense-Basic Research	672
	CONTRACTOR TOTAL				16,248
	ASTRONAUTICS CORP OF AMERICA	Wisconsin	USAF	RDTE/Other Defense-Basic Research	55
	ATLANTIC AEROSPACE ELECTRONICS	Maryland	NAVY	RDTE/Other Defense-Basic Research	333
	ATLANTIC APPLIED RESEARCH	Mass	NAVY	RDTE/Other Defense-Basic Research	79
	ATLANTIC RESEARCH CORPORATION	Maryland	NAVY	RDTE/Other Defense-Basic Research	632
	AUSTIN RESEARCH ASSOCIATES	Texas	NAVY	RDTE/Other Defense-Basic Research	129
	AVCO CORPORATION	Mass	NAVY	RDTE/Other Defense-Basic Research	50
	AVCO RESEARCH LABORATORY INC	Mass	NAVY	RDTE/Other Defense-Basic Research	241
	AWARE INC	Mass	NAVY	RDTE/Other Defense-Basic Research	100
	AXIOM CORPORATION	Virginia	USAF	RDTE/Other Defense-Basic Research	50
	B K DYNAMICS INC	Maryland	NAVY	RDTE/Other Defense-Basic Research	175
	B K TECHNOLOGIES INC	Maryland	NAVY	RDTE/Other Defense-Basic Research	967
	BALL CORPORATION	Colorado	NAVY	RDTE/Other Defense-Basic Research	115
	BALLENA SYSTEMS CORPORATION	California	NAVY	RDTE/Other Defense-Basic Research	520
	BARNES ENGINEERING COMPANY	Conn	NAVY	RDTE/Other Defense-Basic Research	81
	BARRON ASSOCIATES INC	Virginia	NAVY	RDTE/Other Defense-Basic Research	120
	BAYLOR UNIVERSITY	Texas	NAVY	RDTE/Other Defense-Basic Research	60
	BDM INTERNATIONAL INC	Virginia	ARMY	RDTE/Other Defense-Basic Research	300

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R&D	CONTRACTOR NAME	ST/ENTRY	DEPT	R&D DESCRIPTION	
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AD91 (CONTINUED)

	NAVY	RDTE/Other Defense-Basic Research	\$
<b>STATE TOTAL</b>			
BELL COMMUNICATIONS RESEARCH	NAVY	RDTE/Other Defense-Basic Research	417
BENMOL CORPORATION	NAVY	RDTE/Other Defense-Basic Research	717
BIGELOW LAB FOR OCEAN SCNCES	ARMY	RDTE/Other Defense-Basic Research	524
BIOELASTICS RESEARCH LTD	NAVY	RDTE/Other Defense-Basic Research	179
BIOMAGNETIC TECHNOLOGIES INC	NAVY	RDTE/Other Defense-Basic Research	29
BIOPHOTONICS	NAVY	RDTE/Other Defense-Basic Research	114
BIOSPHERICAL INSTRUMENTS INC	NAVY	RDTE/Other Defense-Basic Research	94
BIOTRONICS TECHNOLOGIES INC	NAVY	RDTE/Other Defense-Basic Research	266
BLACK & DECKER CORPORATION	NAVY	RDTE/Other Defense-Basic Research	50
BOEING AEROSPACE & ELECTRONICS	NAVY	RDTE/Other Defense-Basic Research	262
	NAVY	RDTE/Other Defense-Basic Research	80
	NAVY	RDTE/Other Defense-Basic Research	145
	USAF	RDTE/Other Defense-Basic Research	4,851
<b>STATE TOTAL</b>			4,996
BOEING ELECTRONICS INC	NAVY	RDTE/Other Defense-Basic Research	125
BOLT BERANEK & NEWMAN INC	ARMY	RDTE/Other Defense-Basic Research	5,486
	NAVY	RDTE/Other Defense-Basic Research	3,132
	USAF	RDTE/Other Defense-Basic Research	300
<b>STATE TOTAL</b>			8,918
<b>CONTRACTOR TOTAL</b>			
BOSTON UNIVERSITY	NAVY	RDTE/Other Defense-Basic Research	825
BRIGHAM YOUNG UNIVERSITY	NAVY	RDTE/Other Defense-Basic Research	9,743
BRITISH MARITIME TECHNOLOGY	NAVY	RDTE/Other Defense-Basic Research	44
BROWN NEIL INSTRUMENT SYS	NAVY	RDTE/Other Defense-Basic Research	102
BROWN UNIVERSITY	NAVY	RDTE/Other Defense-Basic Research	28
	NAVY	RDTE/Other Defense-Basic Research	81
	NAVY	RDTE/Other Defense-Basic Research	800

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## PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

FISCAL YEAR 1991

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	STATE	ACTIVITY	R&D DESCRIPTION	
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AD91 (CONTINUED)

BRUNSWICK CORPORATION	Florida	ARMY	RDTE/Other	Defense-Basic Research	\$ 5,133
C S EXHIBITS	Virginia	NAVY	RDTE/Other	Defense-Basic Research	59
CAE INDUSTRIES LTD	Texas	ARMY	RDTE/Other	Defense-Easic Research	395
CALIFORNIA INST OF TECHNOLOGY	California	NAVY	RDTE/Other	Defense-Basic Research	1,216
CALIFORNIA RES & TECHNOLOGY	California	NAVY	RDTE/Other	Defense-Basic Research	39
CALSPAN CORPORATION	New York	NAVY USAF	RDTE/Other	Defense-Basic Research	40 326
		STATE TOTAL			366
	Ohio	USAF	RDTE/Other	Defense-Basic Research	1,992
	Texas	USAF	RDTE/Other	Defense-Basic Research	134
					2,492
CONTRACTOR TOTAL					
CAMBRIDGE HYDRO DYNAMICS INC	New Jersey	NAVY	RDTE/Other	Defense-Basic Research	302
CARNEGIE GROUP INC	Penn	ARMY	RDTE/Other	Defense-Basic Research	7,558
CARNEGIE MELLON UNIVERSITY	Penn	ARMY NAVY	RDTE/Other	Defense-Basic Research	200 1,485
		STATE TOTAL			1,685
CASE WESTERN RESERVE UNIV	Ohio	NAVY USAF	RDTE/Other	Defense-Basic Research	111 400
		STATE TOTAL			511
CERAMICS PROCESS SYSTEMS CORP	Mass	NAVY	RDTE/Other	Defense-Basic Research	1,501
CHASE INC	Mass	NAVY	RDTE/Other	Defense-Basic Research	59
CHEMETEK	Oregon	ARMY	RDTE/Other	Defense-Basic Research	100
CHIRP CORP	California	NAVY	RDTE/Other	Defense-Basic Research	120
CLARKSON UNIVERSITY	New York	NAVY	RDTE/Other	Defense-Basic Research	362
COGNET SYSTEMS INC	Ohio	USAF	RDTE/Other	Defense-Basic Research	45

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD91 (CONTINUED)					
	COGNITECH INC	California	NAVY	RDTE/Other Defense-Basic Research	62
	COLORADO SCHOOL OF MINES	Colorado	NAVY	RDTE/Other Defense-Basic Research	50
	COLORADO STATE UNIVERSITY	Colorado	NAVY	RDTE/Other Defense-Basic Research	212
	COLUMBIA UNIVERSITY	New York	NAVY	RDTE/Other Defense-Basic Research	938
			USAF	RDTE/Other Defense-Basic Research	70
		STATE TOTAL			1,008
	COMPUTATIONAL LOGIC INC	Texas	NAVY	RDTE/Other Defense-Basic Research	75
	COMPUTATIONAL PHYSICS INC	D.C.	NAVY	RDTE/Other Defense-Basic Research	358
		Virginia	NAVY	RDTE/Other Defense-Basic Research	30
					388
	CONTRACTOR TOTAL				255
	COMPUTER COMMAND CTRL COMPANY	Penn	NAVY	RDTE/Other Defense-Basic Research	474
	COMPUTER SCIENCES CORPORATION	Alabama	ARMY	RDTE/Other Defense-Basic Research	75
	COMPUTER SYSTEMS INTERNATIONAL	Virginia	NAVY	RDTE/Other Defense-Basic Research	134
	COORDINATING RESEARCH COUNCIL	Georgia	ARMY	RDTE/Other Defense-Basic Research	30
	CORBETT TECHNOLOGY COMPANY	Alabama	ARMY	RDTE/Other Defense-Basic Research	200
	CORDEC CORPORATION	Virginia	NAVY	RDTE/Other Defense-Basic Research	1,223
	CORNELL UNIVERSITY	New York	NAVY	RDTE/Other Defense-Basic Research	614
	CORNING INC	New York	NAVY	RDTE/Other Defense-Basic Research	250
	CORTICON INC	Penn	NAVY	RDTE/Other Defense-Basic Research	50
	CREATIVE OPTICS INC	N.H.	ARMY	RDTE/Other Defense-Basic Research	242
	CRYOLIFE INC	Georgia	NAVY	RDTE/Other Defense-Basic Research	424
	CRYOPHARM	California	NAVY	RDTE/Other Defense-Basic Research	506
	CRYSTALLUME	California	NAVY	RDTE/Other Defense-Basic Research	170
	CSA ENGINEERING INC	Ohio	USAF	RDTE/Other Defense-Basic Research	

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD91 (CONTINUED)					
	DARTMOUTH COLLEGE	N.H.	NAVY	RDTE/Other Defense-Basic Research	868
	DATA COMPUTER CORP OF AMERICA	Maryland	NAVY	RDTE/Other Defense-Basic Research	862
	DAVID SARNOFF RESEARCH CENTER	New Jersey	NAVY	RDTE/Other Defense-Basic Research	472
	DCS CORPORATION	Virginia	NAVY	RDTE/Other Defense-Basic Research	153
	DECISION SCIENCE CONSORTIUM	Virginia	NAVY	RDTE/Other Defense-Basic Research	105
	DEFENSE DIAMOND DEVELOPMENT CO	Virginia	NAVY	RDTE/Other Defense-Basic Research	1,193
	DEFENSE GROUP INC	California	NAVY	RDTE/Other Defense-Basic Research	263
	DELFIN SYSTEMS	California	NAVY	RDTE/Other Defense-Basic Research	235
	DELPHIC ASSOCIATES INC	Virginia	NAVY	RDTE/Other Defense-Basic Research	75
	DIGICOMP RESEARCH CORP	New York	USAF	RDTE/Other Defense-Basic Research	172
	DOW CORNING CORPORATION	Michigan	NAVY	RDTE/Other Defense-Basic Research	135
	DREXEL UNIVERSITY	Penn	NAVY USAF	RDTE/Other Defense-Basic Research RDTE/Other Defense-Basic Research	84 77
	STATE TOTAL				161
	DU PONT E I DE NEMOURS & CO	Delaware	NAVY	RDTE/Other Defense-Basic Research	109
	DUKE UNIVERSITY	N Carolina	NAVY	RDTE/Other Defense-Basic Research	1,500
	DYNAMIC SYSTEMS INC	Virginia	NAVY	RDTE/Other Defense-Basic Research	132
	DYNAMICS TECHNOLOGY	California	NAVY	RDTE/Other Defense-Basic Research	724
	E OIR MEASUREMENTS INC	Virginia	NAVY	RDTE/Other Defense-Basic Research	42
	EAGLE SYSTEMS INC	Maryland	NAVY	RDTE/Other Defense-Basic Research	50
	EG&G WASHINGTON ANALYTICAL SVC	California	NAVY	RDTE/Other Defense-Basic Research	80
	CONTRACTOR TOTAL				102
	EIDETICS INTERNATIONAL INC	Maryland	NAVY	RDTE/Other Defense-Basic Research	182
	CONTRACTOR TOTAL				267



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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AD91 (CONTINUED)

ELECTRO OPTEK CORPORATION	California	USAF	RDTE/Other Defense-Basic Research	\$	935
ELECTRO OPTICAL SCIENCES INC	New York	NAVY	RDTE/Other Defense-Basic Research		425
ELECTRONICS DESIGN CONSULTANTS	N Carolina	NAVY	RDTE/Other Defense-Basic Research		49
EMCORE CORPORATION	New Jersey	NAVY	RDTE/Other Defense-Basic Research		525
ENGINEERING & ECONOMICS RES	Virginia	ARMY	RDTE/Other Defense-Basic Research		151
ENSCO INC	Virginia	ARMY	RDTE/Other Defense-Basic Research		174
ENVIRONMENTAL RES INST OF MICH	Michigan	NAVY	RDTE/Other Defense-Basic Research		425
	USAF		RDTE/Other Defense-Basic Research		180
STATE TOTAL					605
EPI SYSTEMS INC	Minnesota	NAVY	RDTE/Other Defense-Basic Research		116
EPION CORP	Mass	NAVY	RDTE/Other Defense-Basic Research		50
EPOCH ENGINEERING INC	Maryland	NAVY	RDTE/Other Defense-Basic Research		55
ESL INCORPORATED	California	NAVY	RDTE/Other Defense-Basic Research		145
FAIRCHILD INDUSTRIES INC	Maryland	NAVY	RDTE/Other Defense-Basic Research		5,102
FAIRFAX MATERIALS RESEARCH INC	Virginia	NAVY	RDTE/Other Defense-Basic Research		150
FERRANTI INSTRUMENTATION LTD	UNITED KIN	NAVY	RDTE/Other Defense-Basic Research		170
FIBER MATERIALS INC	Maine	NAVY	RDTE/Other Defense-Basic Research		442
FIBERTEK INC	Virginia	NAVY	RDTE/Other Defense-Basic Research		75
FLOUROCHEM INC	California	NAVY	RDTE/Other Defense-Basic Research		484
FLOW INDUSTRIES INC	Washington	NAVY	RDTE/Other Defense-Basic Research		470
	USAF		RDTE/Other Defense-Basic Research		58
STATE TOTAL					528
FMC CORPORATION	Minnesota	ARMY	RDTE/Other Defense-Basic Research		625
FORE SYSTEMS INC	Penn	NAVY	RDTE/Other Defense-Basic Research		290
FORMAL SYSTEMS DESIGN & DEVEL	Alabama	NAVY	RDTE/Other Defense-Basic Research		50

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CONTRY	DEPT	R&D DESCRIPTION	
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AD91 (CONTINUED)

FOSTER MILLER INC	Mass		ARMY	RDTE/Other Defense-Basic Research	\$ 125
			USAF	RDTE/Other Defense-Basic Research	60
				STATE TOTAL	185
FRIED D L ASSOCIATES INC	California		NAVY	RDTE/Other Defense-Basic Research	95
FRONTIER TECHNOLOGY INC	California		USAF	RDTE/Other Defense-Basic Research	459
	Ohio		USAF	RDTE/Other Defense-Basic Research	134
				CONTRACTOR TOTAL	593
FTR INC	New Jersey		NAVY	RDTE/Other Defense-Basic Research	50
FULL CIRCLE RESEARCH	California		ARMY	RDTE/Other Defense-Basic Research	50
G E C MARCONI CO LTD	UNITED KIN		NAVY	RDTE/Other Defense-Basic Research	1,366
G R ASSOCIATES INC	Maryland		NAVY	RDTE/Other Defense-Basic Research	85
GENERAL ATOMICS	California		USAF	RDTE/Other Defense-Basic Research	642
GENERAL DYNAMICS CORPORATION	California		NAVY	RDTE/Other Defense-Basic Research	180
	Texas		NAVY	RDTE/Other Defense-Basic Research	75
	Virginia		NAVY	RDTE/Other Defense-Basic Research	400
				CONTRACTOR TOTAL	655
GENERAL ELECTRIC COMPANY	New Jersey		NAVY	RDTE/Other Defense-Basic Research	500
	New York		NAVY	RDTE/Other Defense-Basic Research	907
				CONTRACTOR TOTAL	1,407
GENERAL HOSPITAL CORPORATION	Mass		NAVY	RDTE/Other Defense-Basic Research	3,050
GENERAL RESEARCH CORPORATION	California		NAVY	RDTE/Other Defense-Basic Research	140
GEO CENTERS INC	D.C.		NAVY	RDTE/Other Defense-Basic Research	2,661
	Mass		NAVY	RDTE/Other Defense-Basic Research	1,165
				CONTRACTOR TOTAL	3,826

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	DESCRIPTION	
AD91 (CONTINUED)					
	GEORGE MASON UNIVERSITY	Virginia	ARMY NAVY	RDTE/Other Defense-Basic Research RDTE/Other Defense-Basic Research	\$ 40 183
		STATE TOTAL			223
	GEORGE WASHINGTON UNIV THE	D.C.	NAVY	RDTE/Other Defense-Basic Research	75
	GEORGIA INSTITUTE TECHNOLOGY	Georgia	NAVY	RDTE/Other Defense-Basic Research	2,810
	GEORGIA TECH RESEARCH CORP	Georgia	ARMY NAVY USAF	RDTE/Other Defense-Basic Research RDTE/Other Defense-Basic Research RDTE/Other Defense-Basic Research	280 172 584
		STATE TOTAL			1,036
	GRAMMATECH INC	New York	NAVY	RDTE/Other Defense-Basic Research	250
	GTE GOVERNMENT SYSTEMS CORP	California	NAVY	RDTE/Other Defense-Basic Research	483
	GTE INTERNATIONAL INC	Mass	NAVY	RDTE/Other Defense-Basic Research	247
	GULTON DATA SYSTEMS	New Mexico	NAVY	RDTE/Other Defense-Basic Research	1,139
	HARRIS CORPORATION	Florida	NAVY USAF	RDTE/Other Defense-Basic Research RDTE/Other Defense-Basic Research	5,752 500
		STATE TOTAL			6,252
	HARVARD UNIVERSITY	Mass	NAVY	RDTE/Other Defense-Basic Research	266
		Texas	NAVY	RDTE/Other Defense-Basic Research	45
		CONTRACTOR TOTAL			311
	HAWAII BIOTECHNOLOGY GROUP	Hawaii	NAVY	RDTE/Other Defense-Basic Research	52
	HEALTH RESEARCH INC	New York	NAVY	RDTE/Other Defense-Basic Research	100
	HEWLETT PACKARD COMPANY	Maryland	NAVY	RDTE/Other Defense-Basic Research	630
	HONEYWELL INC	Florida	NAVY	RDTE/Other Defense-Basic Research	36
		Minnesota	NAVY USAF	RDTE/Other Defense-Basic Research RDTE/Other Defense-Basic Research	766 267
		STATE TOTAL			1,033
		CONTRACTOR TOTAL			1,069

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD91 (CONTINUED)					
	HORIZON TECHNOLOGY	W Virginia	NAVY	RDTE/Other Defense-Basic Research	361
	HORRIGAN ANALYTICS	Illinois	NAVY	RDTE/Other Defense-Basic Research	200
	HOUSTON AREA RESEARCH CENTER	Texas	NAVY	RDTE/Other Defense-Basic Research	100
	HUGHES AIRCRAFT COMPANY	California	NAVY	RDTE/Other Defense-Basic Research	1,605
		USAF		RDTE/Other Defense-Basic Research	2,353
		STATE TOTAL			3,958
	HUGHES ASSOCIATES INC	Maryland	NAVY	RDTE/Other Defense-Basic Research	2,834
	HYPRES INC	New York	NAVY	RDTE/Other Defense-Basic Research	322
	I I T RESEARCH INSTITUTE	Illinois	ARMY	RDTE/Other Defense-Basic Research	249
		NAVY		RDTE/Other Defense-Basic Research	75
		STATE TOTAL			324
	I W G CORP	California	NAVY	RDTE/Other Defense-Basic Research	195
	ICECASTING INC	Washington	NAVY	RDTE/Other Defense-Basic Research	107
	INFORMATION PLANNING ASSOC	Virginia	NAVY	RDTE/Other Defense-Basic Research	1,075
	INNOVATIVE CONCEPTS INC	Virginia	NAVY	RDTE/Other Defense-Basic Research	2,443
	INNOVATIVE DYNAMICS	New York	NAVY	RDTE/Other Defense-Basic Research	99
	INTEGRATED PARALLEL TECHNOLOGY	California	NAVY	RDTE/Other Defense-Basic Research	49
	INTEGRATED SYSTEM ASSEMBLIES	Mass	NAVY	RDTE/Other Defense-Basic Research	70
	INTERFEROMETRICS INC	D.C.	NAVY	RDTE/Other Defense-Basic Research	60
		Virginia	NAVY	RDTE/Other Defense-Basic Research	33
		CONTRACTOR TOTAL			93
	INTERNATIONAL BUS MCHS CORP	California	NAVY	RDTE/Other Defense-Basic Research	369
		New York	NAVY	RDTE/Other Defense-Basic Research	1,324
		Virginia	NAVY	RDTE/Other Defense-Basic Research	3,322
		CONTRACTOR TOTAL			5,015
	INTERNATIONAL FUEL CELLS CORP	Conn	NAVY	RDTE/Other Defense-Basic Research	202

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AD91 (CONTINUED)					
	INTERSPEC INC	Penn	NAVY	RDTE/Other Defense-Basic Research	\$ 149
	INTRASPACE CORPORATION	Utah	NAVY	RDTE/Other Defense-Basic Research	1,059
	IOWA STATE UNIV SCNC	Illinois	NAVY	RDTE/Other Defense-Basic Research	30
	JAYCOR	Virginia	NAVY	RDTE/Other Defense-Basic Research	599
	JHA TECHNICAL CONSULTING SER	California	NAVY	RDTE/Other Defense-Basic Research	49
	JIL SYSTEMS INC	Virginia	NAVY	RDTE/Other Defense-Basic Research	247
	JOHNS HOPKINS UNIVERSITY	Maryland	NAVY	RDTE/Other Defense-Basic Research	957
	JORTNER RESEARCH & ENGRG	California	NAVY	RDTE/Other Defense-Basic Research	90
	KENT STATE UNIVERSITY	Ohio	ARMY	RDTE/Other Defense-Basic Research	250
	KESTREL INSTITUTE	California	NAVY	RDTE/Other Defense-Basic Research	713
	KOPIN CORPORATION	Mass	NAVY	RDTE/Other Defense-Basic Research	300
	KRUG INTERNATIONAL CORPORATION	Texas	USAF	RDTE/Other Defense-Basic Research	318
	LASER SCIENCE CO	Iowa	NAVY	RDTE/Other Defense-Basic Research	49
	LASERGENICS CORPORATION	California	ARMY	RDTE/Other Defense-Basic Research	44
	LAWRENCE LIVERMORE LABORATORY	California	NAVY	RDTE/Other Defense-Basic Research	105
	LEHIGH UNIVERSITY	Penn	NAVY	RDTE/Other Defense-Basic Research	136
	LIFE CELL CORP	Texas	NAVY	RDTE/Other Defense-Basic Research	247
	LINARES MANAGEMENT ASSOC INC	Mass	NAVY	RDTE/Other Defense-Basic Research	50
	LING ELECTRONICS INC	California	NAVY	RDTE/Other Defense-Basic Research	28
	LITHIUM ENERGY ASSOC INC	Mass	NAVY	RDTE/Other Defense-Basic Research	100
	LITTON SYSTEMS INC	California	ARMY NAVY	RDTE/Other Defense-Basic Research RDTE/Other Defense-Basic Research	196 347
	STATE TOTAL				543
	New Jersey		NAVY	RDTE/Other Defense-Basic Research	150

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD91 (CONTINUED)					
	CONTRACTOR TOTAL				
	LOCKHEED MISSILES & SPACE CO	California	NAVY	RDTE/Other Defense-Basic Research	693
	LOCKHEED SANDERS INC	N.H.	NAVY	RDTE/Other Defense-Basic Research	1,613
			USAF	RDTE/Other Defense-Basic Research	9,680
					53
	STATE TOTAL				9,733
	LOCUS INC	Penn	NAVY	RDTE/Other Defense-Basic Research	450
	LOGICON INC	Ohio	USAF	RDTE/Other Defense-Basic Research	44
	LORAL CORPORATION	California	NAVY	RDTE/Other Defense-Basic Research	50
		Mass	NAVY	RDTE/Other Defense-Basic Research	2,423
		Ohio	NAVY	RDTE/Other Defense-Basic Research	96
	CONTRACTOR TOTAL				2,569
	LOWELL OBSERVATORY	Arizona	NAVY	RDTE/Other Defense-Basic Research	100
	LTV AEROSPACE & DEFENSE CO	Texas	USAF	RDTE/Other Defense-Basic Research	55
	LUTRONIX INC	California	NAVY	RDTE/Other Defense-Basic Research	500
	M E C SYSTEMS CORPORATION	Virginia	NAVY	RDTE/Other Defense-Basic Research	27
	M/A COM INC	Mass	NAVY	RDTE/Other Defense-Basic Research	75
	MAC AULAY BROWN INC	Ohio	USAF	RDTE/Other Defense-Basic Research	3,161
	MAGNAVOX GOVT & INDUSTRIAL ELCTR	Virginia	NAVY	RDTE/Other Defense-Basic Research	136
	MANDEX INC	Virginia	NAVY	RDTE/Other Defense-Basic Research	400
	MARBLE ASSOCIATES INC	Mass	NAVY	RDTE/Other Defense-Basic Research	250
	MARINE ACOUSTICS	Rhode Isl	NAVY	RDTE/Other Defense-Basic Research	1,063
	MARINE RESEARCH CORP	Vermont	NAVY	RDTE/Other Defense-Basic Research	90
	MARCO MATERIALS INC	Mass	NAVY	RDTE/Other Defense-Basic Research	50
	MARQUARDT COMPANY THE	California	NAVY	RDTE/Other Defense-Basic Research	54

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AD91 (CONTINUED)

MARTIN MARIETTA CORPORATION	Colorado	NAVY	RDTE/Other Defense-Basic Research	\$	192
		USAF	RDTE/Other Defense-Basic Research		412
STATE TOTAL					604
CONTRACTOR TOTAL					821
MASSACHUSETTS INST OF TECHNOLOGY	Mass	ARMY	RDTE/Other Defense-Basic Research		1,425
		NAVY	RDTE/Other Defense-Basic Research		1,079
		USAF	RDTE/Other Defense-Basic Research		6,842
STATE TOTAL					40
CONTRACTOR TOTAL					7,961
MATHTECH INC	Michigan	ARMY	RDTE/Other Defense-Basic Research		252
CONTRACTOR TOTAL					8,213
MCDONNELL DOUGLAS SPACE SYS CO	New Jersey	NAVY	RDTE/Other Defense-Basic Research		119
MCPHEE RESEARCH CO	Virginia	NAVY	RDTE/Other Defense-Basic Research		49
MEMRY CORPORATION	California	NAVY	RDTE/Other Defense-Basic Research		168
MENTOR GRAPHICS CORPORATION	Washington	NAVY	RDTE/Other Defense-Basic Research		1,849
METRICA INC	Conn	NAVY	RDTE/Other Defense-Basic Research		157
MIAMI VALLE, RESEARCH INST	Oregon	NAVY	RDTE/Other Defense-Basic Research		115
MICHIGAN TECHNICAL UNIVERSITY	Texas	USAF	RDTE/Other Defense-Basic Research		346
MICROELECTRONICS	Ohio	USAF	RDTE/Other Defense-Basic Research		32
MIDWEST RESEARCH INSTITUTE	Michigan	ARMY	RDTE/Other Defense-Basic Research		182
	Texas	ARMY	RDTE/Other Defense-Basic Research		69
STATE TOTAL					190
CONTRACTOR TOTAL					417
	California	USAF	RDTE/Other Defense-Basic Research		607
	Missouri	USAF	RDTE/Other Defense-Basic Research		315
					1,487

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD91 (CONTINUED)					
	CONTRACTOR TOTAL				
	MIDWEST SYSTEMS RESEARCH INC	Ohio	USAF	RDTE/Other Defense-Basic Research	1,802
	MINNESOTA MINING & MFG CO	Minnesota	NAVY	RDTE/Other Defense-Basic Research	50
	MISSION RESEARCH CORP	Virginia	NAVY	RDTE/Other Defense-Basic Research	668
	MISSION RESEARCH CORPORATION	California	NAVY	RDTE/Other Defense-Basic Research	159
			USAF	RDTE/Other Defense-Basic Research	97
				RDTE/Other Defense-Basic Research	124
	STATE TOTAL				221
		Virginia	NAVY	RDTE/Other Defense-Basic Research	44
	CONTRACTOR TOTAL				265
	MITEK SYSTEMS INC	Virginia	ARMY	RDTE/Other Defense-Basic Research	196
	MNEMONICS INC	Florida	NAVY	RDTE/Other Defense-Basic Research	648
	MODERN TECHNOLOGIES CORP	Ohio	ARMY	RDTE/Other Defense-Basic Research	343
	MOLECULAR DEVICES CORPORATION	California	NAVY	RDTE/Other Defense-Basic Research	137
	MONTEREY INSTITUTE FOR RESEARC	California	NAVY	RDTE/Other Defense-Basic Research	40
	MORLOCK ENVIRONMENTAL	Oklahoma	USAF	RDTE/Other Defense-Basic Research	486
	MRAM INC	Mass	NAVY	RDTE/Other Defense-Basic Research	58
	MUFFOLETTO OPTICAL CO INC	Maryland	NAVY	RDTE/Other Defense-Basic Research	96
	NATIONAL ACADEMY SCIENCES USA	D.C.	NAVY	RDTE/Other Defense-Basic Research	531
	NATIONAL SCIENCE FOUNDATION	Colorado	NAVY	RDTE/Other Defense-Basic Research	70
		D.C.	NAVY	RDTE/Other Defense-Basic Research	1,778
		Washington	NAVY	RDTE/Other Defense-Basic Research	82
	CONTRACTOR TOTAL				1,930
	NEPTUNE TECHNOLOGIES INC	Miss	NAVY	RDTE/Other Defense-Basic Research	123
	NETROLOGIC INC	California	NAVY	RDTE/Other Defense-Basic Research	250

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD91 (CONTINUED)					
	NEUROGEN LABS INC	Mass	NAVY	RDTE/Other Defense-Basic Research	122
	NEUROSCIENCES RES FOUNDATION	New York	NAVY	RDTE/Other Defense-Basic Research	40
	NEW MEXICO INST OF MIN TCHNLGY	New Mexico	NAVY	RDTE/Other Defense-Basic Research	518
	NEW YORK BLOOD CENTER INC	New York	NAVY	RDTE/Other Defense-Basic Research	125
	NEW YORK STATE OF	New York	NAVY	RDTE/Other Defense-Basic Research	42
	NEW YORK UNIVERSITY	New York	NAVY	RDTE/Other Defense-Basic Research	35
	NIELSEN ENGINEERING & RES	California	NAVY	RDTE/Other Defense-Basic Research	53
	NORTH AMERICAN DYNAMICS	California	USAF	RDTE/Other Defense-Basic Research	512
	NORTH CAROLINA A&T UNIV	N Carolina	NAVY	RDTE/Other Defense-Basic Research	202
	NORTH CAROLINA STATE UNIV	N Carolina	NAVY	RDTE/Other Defense-Basic Research	769
	NORTH EAST SEMICONDUCTOR INC	New York	NAVY	RDTE/Other Defense-Basic Research	350
	NORTH STAR RESEARCH INC	New Mexico	ARMY	RDTE/Other Defense-Basic Research	49
	NORTHEASTERN UNIVERSITY CORP	Mass	NAVY	RDTE/Other Defense-Basic Research	31
	NORTHROP CORPORATION	California	USAF	RDTE/Other Defense-Basic Research	260
		Illinois	NAVY	RDTE/Other Defense-Basic Research	226
	CONTRACTOR TOTAL				486
	NORTHWEST RESEARCH ASSOCIATES	Washington	NAVY	RDTE/Other Defense-Basic Research	304
	NORTHWESTERN UNIVERSITY	Illinois	NAVY	RDTE/Other Defense-Basic Research	132
	NORTON CO DIAMOND FILMS DIV	Mass	NAVY	RDTE/Other Defense-Basic Research	291
	OHIO STATE UNIVERSITY	Ohio	ARMY	RDTE/Other Defense-Basic Research	282
			NAVY	RDTE/Other Defense-Basic Research	44
			USAF	RDTE/Other Defense-Basic Research	72
	STATE TOTAL				398
	OKLAHOMA STATE UNIVERSITY	Oklahoma	ARMY	RDTE/Other Defense-Basic Research	123
	OLD DMNION UNIV RES FOUNDATION	Virginia	NAVY	RDTE/Other Defense-Basic Research	215

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AD91 (CONTINUED)					
	OMEGA P INC		USAF	RDTE/Other Defense-Basic Research	\$ 30
	OMNET INC	D.C.	NAVY	RDTE/Other Defense-Basic Research	245
	OMNICHROME	Mass	NAVY	RDTE/Other Defense-Basic Research	100
	ONEIDA RESOURCES INC	California	NAVY	RDTE/Other Defense-Basic Research	60
	OPTICOMP CORPORATION	Ohio	USAF	RDTE/Other Defense-Basic Research	50
	OPTRON SYSTEMS INC	Nevada	NAVY	RDTE/Other Defense-Basic Research	310
	OR CONCEPTS APPLIED	Mass	NAVY	RDTE/Other Defense-Basic Research	1,067
	ORBITAL SCIENCES CORPORATION	California	USAF	RDTE/Other Defense-Basic Research	508
	OREGON STATE UNIVERSITY	Virginia	USAF	RDTE/Other Defense-Basic Research	50
	ORINCON CORPORATION	Oregon	NAVY	RDTE/Other Defense-Basic Research	5,475
	PACIFIC SIERRA RESEARCH CORP	California	NAVY	RDTE/Other Defense-Basic Research	1,341
	PARASOFT	California	NAVY	RDTE/Other Defense-Basic Research	60
	PARKER HANNIFIN CORPORATION	California	NAVY	RDTE/Other Defense-Basic Research	826
	PDA ENGINEERING	California	USAF	RDTE/Other Defense-Basic Research	229
	PENNSYLVANIA STATE UNIV INC	Penn	USAF	RDTE/Other Defense-Basic Research	200
	PERFECT VIEW INC		ARMY	RDTE/Other Defense-Basic Research	59
	PERKIN ELMER CORPORATION	N Carolina	NAVY	RDTE/Other Defense-Basic Research	79
	PERSONNEL DCSONS RES INSTITUTE	Conn	NAVY	RDTE/Other Defense-Basic Research	1,862
	PHOTON RESEARCH ASSOCIATES	Minnesota	NAVY	RDTE/Other Defense-Basic Research	30
	PHYSICAL RESEARCH INC	California	NAVY	RDTE/Other Defense-Basic Research	1,971
			STATE TOTAL		109
			NAVY	RDTE/Other Defense-Basic Research	20
			NAVY	RDTE/Other Defense-Basic Research	142
			NAVY	RDTE/Other Defense-Basic Research	350
			NAVY	RDTE/Other Defense-Basic Research	100

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AD91 (CONTINUED)

PHYSICAL SCIENCES INC	Mass	NAVY	RDTE/Other	Defense-Basic Research	\$	160
		USAF	RDTE/Other	Defense-Basic Research		38
STATE TOTAL						198
PHYSICS INTERNATIONAL COMPANY	California	ARMY	RDTE/Other	Defense-Basic Research		373
	Mass	NAVY	RDTE/Other	Defense-Basic Research		175
CONTRACTOR TOTAL						548
PHYSICS MATHEMATICS COMPUTER	New Mexico	NAVY	RDTE/Other	Defense-Basic Research		48
PLANNING SYSTEMS INCORPORATED	Miss	NAVY	RDTE/Other	Defense-Basic Research		1,266
	New Jersey	NAVY	RDTE/Other	Defense-Basic Research		45
	Virginia	NAVY	RDTE/Other	Defense-Basic Research		1,525
CONTRACTOR TOTAL						2,836
PLASMATRON, INC	Penn	ARMY	RDTE/Other	Defense-Basic Research		50
POLYTECHNIC UNIV OF NEW YORK	New York	NAVY	RDTE/Other	Defense-Basic Research		203
PRC INC	Virginia	ARMY	RDTE/Other	Defense-Basic Research		1,185
PRECISION COMBUSTION INC	Conn	USAF	RDTE/Other	Defense-Basic Research		387
PRINCETON SCIENTIFIC INSTRS	New Jersey	NAVY	RDTE/Other	Defense-Basic Research		49
PRINCETON UNIVERSITY	New Jersey	NAVY	RDTE/Other	Defense-Basic Research		1,656
PROGRAM RESOURCES INC	Maryland	NAVY	RDTE/Other	Defense-Basic Research		203
PROMEGA CORP	Wisconsin	NAVY	RDTE/Other	Defense-Basic Research		125
PROPULSION DYNAMICS INC	Maryland	NAVY	RDTE/Other	Defense-Basic Research		87
PURDUE UNIVERSITY	Indiana	NAVY	RDTE/Other	Defense-Basic Research		738
QSOURCE INC	Conn	NAVY	RDTE/Other	Defense-Basic Research		66
QUADRA ENGINEERING INC	Mass	NAVY	RDTE/Other	Defense-Basic Research		69
QUESTECH INC	Virginia	NAVY	RDTE/Other	Defense-Basic Research		1,179

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AD91 (CONTINUED)

QUICK REACTION CORP	California	ARMY	RDTE/Other Defense-Basic Research	\$	250
R & D ASSOCIATES	California	NAVY	RDTE/Other Defense-Basic Research		400
RADIATION SCIENCE INC	Mass	NAVY	RDTE/Other Defense-Basic Research		46
RADIX SYSTEMS INC	Maryland	NAVY	RDTE/Other Defense-Basic Research		221
RAVEN INC	Virginia	NAVY	RDTE/Other Defense-Basic Research		630
RAYMOND L & ASSOC	California	ARMY	RDTE/Other Defense-Basic Research		60
RAYTHEON COMPANY	California	NAVY	RDTE/Other Defense-Basic Research		200
	Mass	NAVY	RDTE/Other Defense-Basic Research		503
		USAF	RDTE/Other Defense-Basic Research		81
	STATE TOTAL				584
	Rhode Isld	NAVY	RDTE/Other Defense-Basic Research		311
CONTRACTOR TOTAL					1,095
RENSELAER POLYTECHNIC INST	New York	NAVY	RDTE/Other Defense-Basic Research		1,600
RESEARCH TRIANGLE INSTITUTE	N Carolina	NAVY	RDTE/Other Defense-Basic Research		1,999
RETICULAR SYSTEMS INC	California	NAVY	RDTE/Other Defense-Basic Research		50
REVCO INC	New York	NAVY	RDTE/Other Defense-Basic Research		50
RIVERSIDE RESEARCH INSTITUTE	New York	NAVY	RDTE/Other Defense-Basic Research		399
ROCKET RESEARCH CO	Washington	NAVY	RDTE/Other Defense-Basic Research		68
ROCKWELL INTERNATIONAL CORP	California	NAVY	RDTE/Other Defense-Basic Research		1,702
		USAF	RDTE/Other Defense-Basic Research		101
	STATE TOTAL				1,803
ROWE DEINES INSTRUMENTS INC	California	NAVY	RDTE/Other Defense-Basic Research		49
RUTGERS THE STATE UNIVERSITY	New Jersey	NAVY	RDTE/Other Defense-Basic Research		204
S B S ENGINEERING INC	Texas	USAF	RDTE/Other Defense-Basic Research		350
S F A INC	D.C.	NAVY	RDTE/Other Defense-Basic Research		2,852

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD91 (CONTINUED)					
	CONTRACTOR TOTAL				
	S S G INC	Maryland	NAVY	RDTE/Other Defense-Basic Research	734
	S T D RESEARCH CORPORATION	Mass	NAVY	RDTE/Other Defense-Basic Research	3,586
	SALK INST FOR BLGICAL STUDIES	California	NAVY	RDTE/Other Defense-Basic Research	154
	SANDERS FREDERICK DR	California	ARMY	RDTE/Other Defense-Basic Research	140
	SATCON TECHNOLOGY CORPORATION	Mass	NAVY	RDTE/Other Defense-Basic Research	50
	SCHAFER W J ASSOCIATES INC	Mass	NAVY	RDTE/Other Defense-Basic Research	34
		Alabama	NAVY	RDTE/Other Defense-Basic Research	50
		Mass	USAF	RDTE/Other Defense-Basic Research	386
		Virginia	NAVY	RDTE/Other Defense-Basic Research	374
	CONTRACTOR TOTAL				611
	SCHMIDT INSTRUMENTS	Texas	NAVY	RDTE/Other Defense-Basic Research	1,371
	SCHWARTZ ELECTRO-OPTICS INC	Florida	NAVY	RDTE/Other Defense-Basic Research	244
	SCI TEC INC	New Jersey	NAVY	RDTE/Other Defense-Basic Research	170
	SCI TECHNOLOGY INC	Alabama	NAVY	RDTE/Other Defense-Basic Research	814
	SCIENCE & TECHNOLOGY CORP	Virginia	NAVY	RDTE/Other Defense-Basic Research	250
	SCIENCE APPLICATIONS INTL CORP	California	NAVY	RDTE/Other Defense-Basic Research	1,305
		D.C.	NAVY	RDTE/Other Defense-Basic Research	4,803
		Virginia	NAVY	RDTE/Other Defense-Basic Research	380
	STATE TOTAL				130
		Washington	NAVY	RDTE/Other Defense-Basic Research	4,256
		Mass	NAVY	RDTE/Other Defense-Basic Research	4,386
	CONTRACTOR TOTAL				75
	SCIENCE RESEARCH LABORATORY	Mass	NAVY	RDTE/Other Defense-Basic Research	9,644
					651

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD91 (CONTINUED)					
	SCIENTIFIC ATLANTA INC	Georgia	NAVY	RDTE/Other Defense-Basic Research	795
	SCIENTIFIC RESEARCH ASSOC INC	Conn	NAVY	RDTE/Other Defense-Basic Research	245
	SEA TECH INC	Oregon	NAVY	RDTE/Other Defense-Basic Research	250
	SEARCH TECHNOLOGY INC	Georgia	NAVY	RDTE/Other Defense-Basic Research	117
	SIERRA MONOLITHICS INC	California	NAVY	RDTE/Other Defense-Basic Research	299
	SIGNITION INCORPORATED	New Mexico	NAVY	RDTE/Other Defense-Basic Research	216
	SILICON ENERGY CORP	California	NAVY	RDTE/Other Defense-Basic Research	49
	SIPPICAN INC	Mass	NAVY	RDTE/Other Defense-Basic Research	778
	SOFTWARE OPTIONS INC	Mass	NAVY	RDTE/Other Defense-Basic Research	1,029
	SOFTWARE TECHNOLOGY INC	Florida	NAVY	RDTE/Other Defense-Basic Research	300
	SOMATOGEN	Colorado	NAVY	RDTE/Other Defense-Basic Research	885
	SONALYSTS INC	Conn	NAVY	RDTE/Other Defense-Basic Research	367
	SONOGUEST ADVANCED	Mass	NAVY	RDTE/Other Defense-Basic Research	114
	SOUTH CAROLINA STATE OF	S Carolina	NAVY	RDTE/Other Defense-Basic Research	49,993
	SOUTHEASTN CTR ELECTR ENG ED	Florida	USAF	RDTE/Other Defense-Basic Research	515
		Ohio	USAF	RDTE/Other Defense-Basic Research	513
	CONTRACTOR TOTAL				1,028
	SOUTHERN ILLINOIS UNIVERSITY	Illinois	NAVY	RDTE/Other Defense-Basic Research	26
	SOUTHERN RESEARCH INSTITUTE	Alabama	ARMY	RDTE/Other Defense-Basic Research	134
	SOUTHWEST RESEARCH INSTITUTE	Texas	NAVY	RDTE/Other Defense-Basic Research	440
	SPARTA INC	California	NAVY	RDTE/Other Defense-Basic Research	296
		USAF	NAVY	RDTE/Other Defense-Basic Research	49
	STATE TOTAL				345
	SPFOTRON DEVELOPMENT LABS	California	NAVY	RDTE/Other Defense-Basic Research	39

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD91 (CONTINUED)					
	SPIRE CORPORATION	Mass	ARMY	RDTE/Other Defense-Basic Research	49
	SRI INTERNATIONAL	California	NAVY	RDTE/Other Defense-Basic Research	4,808
			USAF	RDTE/Other Defense-Basic Research	86
			STATE TOTAL		4,894
	ST LOUIS UNIVERSITY	Missouri	USAF	RDTE/Other Defense-Basic Research	37
	STANFORD UNIVERSITY	California	NAVY	RDTE/Other Defense-Basic Research	3,786
	STATE UNIVERSITY OF NEW YORK	New York	NAVY	RDTE/Other Defense-Basic Research	145
	STEVENS INST OF TECHNOLOGY	New Jersey	NAVY	RDTE/Other Defense-Basic Research	200
	STRATEGIC ANALYSIS INC	Virginia	ARMY	RDTE/Other Defense-Basic Research	78
			NAVY	RDTE/Other Defense-Basic Research	607
			STATE TOTAL		685
	STRATEGIC RESEARCH & MGT SVS	Virginia	NAVY	RDTE/Other Defense-Basic Research	91
	SUMMATION RESEARCH INC	Florida	NAVY	RDTE/Other Defense-Basic Research	498
	SURFACE OPTICS CORP	California	USAF	RDTE/Other Defense-Basic Research	249
	SWALES & ASSOCIATES INC	Maryland	NAVY	RDTE/Other Defense-Basic Research	1,181
	SYNECTICS CORP	Virginia	ARMY	RDTE/Other Defense-Basic Research	200
	SYNTEK ENGRG COMPUTER SYSTEMS	Maryland	NAVY	RDTE/Other Defense-Basic Research	32
	SYSTEM PLANNING CORPORATION	Virginia	ARMY	RDTE/Other Defense-Basic Research	6,681
	SYSTEM TECHNOLOGIES INC	Maryland	ARMY	RDTE/Other Defense-Basic Research	50
	SYSTEMS & ELECTRONICS INC	Illinois	NAVY	RDTE/Other Defense-Basic Research	1,034
	SYSTEMS & TECHNOLOGY RESEARCH	Virginia	USAF	RDTE/Other Defense-Basic Research	470
	SYSTEMS ANALYSIS & INTEGRATION	California	NAVY	RDTE/Other Defense-Basic Research	128
	SYSTEMS PLANNING & ANALYSIS	Virginia	NAVY	RDTE/Other Defense-Basic Research	4,032
	SYSTRAN CORP	Ohio	USAF	RDTE/Other Defense-Basic Research	1,171
	T S C INC	California	NAVY	RDTE/Other Defense-Basic Research	54

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD91 (CONTINUED)					
	T S I MASON RESEARCH	Mass	NAVY	RDTE/Other Defense-Basic Research	125
	TAU CORPORATION	California	USAF	RDTE/Other Defense-Basic Research	248
	TAYLOR S R	Oklahoma	ARMY	RDTE/Other Defense-Basic Research	50
	TECHNO SCIENCES INC	Maryland	NAVY	RDTE/Other Defense-Basic Research	143
	TECHNOLOGY APPLICATIONS INC	Virginia	NAVY	RDTE/Other Defense-Basic Research	83
	TECHNOLOGY RESEARCH INTL	California	NAVY	RDTE/Other Defense-Basic Research	506
	TELEDYNE INDUSTRIES INC	California	NAVY	RDTE/Other Defense-Basic Research	596
	TETRA CORPORATION	New Mexico	NAVY	RDTE/Other Defense-Basic Research	132
	TETRA TECH DATA SYSTEMS INC	California	NAVY	RDTE/Other Defense-Basic Research	140
	TEXAS A & M RESEARCH FDN	Texas	NAVY	RDTE/Other Defense-Basic Research	29
	TEXAS INSTRUMENTS INC	Texas	NAVY	RDTE/Other Defense-Basic Research	5,120
	THERMO ELCTRON TECHNOLOGIES CORP	California	NAVY	RDTE/Other Defense-Basic Research	1,656
			USAF	RDTE/Other Defense-Basic Research	130
					1,786
			STATE TOTAL		
	THINKING MACHINES CORPORATION	Mass	ARMY	RDTE/Other Defense-Basic Research	127
	THIOKOL CORPORATION	Maryland	NAVY	RDTE/Other Defense-Basic Research	75
		Utah	NAVY	RDTE/Other Defense-Basic Research	95
					170
	CONTRACTOR TOTAL				
	THOMSON CSF INC	California	NAVY	RDTE/Other Defense-Basic Research	177
	TOYON RESEARCH CORP	California	USAF	RDTE/Other Defense-Basic Research	49
	TRACOR APPLIED SCIENCES INC	Texas	NAVY	RDTE/Other Defense-Basic Research	30
	TRACOR INC	Texas	NAVY	RDTE/Other Defense-Basic Research	440
	TRANS SCIENCE CORP	California	NAVY	RDTE/Other Defense-Basic Research	150
	TRIDENT SYSTEMS INC	Virginia	NAVY	RDTE/Other Defense-Basic Research	90

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD91 (CONTINUED)					
	TROY SYSTEMS INC	Virginia	ARMY	RDTE/Other Defense-Basic Research	93
	TRUAX ENGINEERING	California	NAVY	RDTE/Other Defense-Basic Research	2,171
	TRW INC	California	NAVY	RDTE/Other Defense-Basic Research	3,011
		Ohio	USAF	RDTE/Other Defense-Basic Research	3,895
		Virginia	USAF	RDTE/Other Defense-Basic Research	9,064
	CONTRACTOR TOTAL				15,970
	TS INFOSYSTEMS INC	Maryland	NAVY	RDTE/Other Defense-Basic Research	74
	TUSKEGEE UNIVERSITY	Alabama	NAVY	RDTE/Other Defense-Basic Research	222
	U S FOOD & DRUG ADMINISTRATION	Maryland	NAVY	RDTE/Other Defense-Basic Research	30
	UNIFIED INDUSTRIES INC	D.C.	NAVY	RDTE/Other Defense-Basic Research	170
	UNION CARBIDE CHEM & PLAS CO	Ohio	NAVY	RDTE/Other Defense-Basic Research	100
	UNION CORPORATION	Penn	ARMY	RDTE/Other Defense-Basic Research	1,631
	UNIQUE MOBILITY INC	Colorado	NAVY	RDTE/Other Defense-Basic Research	50
	UNISYS CORPORATION	Penn	NAVY	RDTE/Other Defense-Basic Research	700
		Virginia	USAF	RDTE/Other Defense-Basic Research	9,026
	CONTRACTOR TOTAL				9,726
	UNITED STATES DEPT OF COMMERCE	Colorado	NAVY	RDTE/Other Defense-Basic Research	455
		D.C.	NAVY	RDTE/Other Defense-Basic Research	1,248
		Florida	NAVY	RDTE/Other Defense-Basic Research	192
		Maryland	NAVY	RDTE/Other Defense-Basic Research	2,485
		Miss	NAVY	RDTE/Other Defense-Basic Research	170
		Virginia	NAVY	RDTE/Other Defense-Basic Research	70
		Washington	NAVY	RDTE/Other Defense-Basic Research	166
	CONTRACTOR TOTAL				4,786

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
A09. (CONTINUED)					
	UNITED STATES DEPT OF ENERGY	California	NAVY	RDTE/Other Defense-Basic Research	406
		D.C.	NAVY	RDTE/Other Defense-Basic Research	95
		Illinois	NAVY	RDTE/Other Defense-Basic Research	206
		New Mexico	NAVY	RDTE/Other Defense-Basic Research	423
		Tennessee	NAVY	RDTE/Other Defense-Basic Research	457
	CONTRACTOR TOTAL				1,587
	UNITED STATES DEPT OF INTERIOR	California	NAVY	RDTE/Other Defense-Basic Research	36
		Maryland	NAVY	RDTE/Other Defense-Basic Research	31
		Virginia	NAVY	RDTE/Other Defense-Basic Research	249
	CONTRACTOR TOTAL				316
	UNITED TECHNOLOGIES CORP	California	NAVY	RDTE/Other Defense-Basic Research	26
		Conn	NAVY	RDTE/Other Defense-Basic Research	1,383
		Florida	NAVY	RDTE/Other Defense-Basic Research	249
	CONTRACTOR TOTAL				1,658
	UNIVERSAL ENERGY SYSTEMS INC	Ohio	NAVY USAF	RDTE/Other Defense-Basic Research RDTE/Other Defense-Basic Research	488 1,602
	STATE TOTAL				2,090
	UNIVERSITY NC AT CHAPEL HL	N Carolina	NAVY	RDTE/Other Defense-Basic Research	741
	UNIVERSITY OF AKRON	Ohio	NAVY	RDTE/Other Defense-Basic Research	61
	UNIVERSITY OF ALABAMA	Alabama	ARMY NAVY	RDTE/Other Defense-Basic Research RDTE/Other Defense-Basic Research	147 201
	STATE TOTAL				348
	UNIVERSITY OF ALASKA	Alaska	NAVY	RDTE/Other Defense-Basic Research	1,062
	UNIVERSITY OF ARIZONA	Arizona	NAVY	RDTE/Other Defense-Basic Research	368
	UNIVERSITY OF ARKANSAS	Arkansas	ARMY	RDTE/Other Defense-Basic Research	200
	UNIVERSITY OF CALIFORNIA	California	NAVY	RDTE/Other Defense-Basic Research	8,623

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AD91 (CONTINUED)

	USAF	RDTE/Other Defense-Basic Research	\$
UNIVERSITY OF CENTRAL FLORIDA	STATE TOTAL		
	FLORIDA		
	ARMY	RDTE/Other Defense-Basic Research	587
	NAVY	RDTE/Other Defense-Basic Research	9,210
			300
			550
	STATE TOTAL		850
UNIVERSITY OF CHICAGO THE	ILLINOIS	RDTE/Other Defense-Basic Research	288
UNIVERSITY OF CINCINNATI	OHIO	RDTE/Other Defense-Basic Research	35
UNIVERSITY OF COLORADO	COLORADO	RDTE/Other Defense-Basic Research	298
UNIVERSITY OF CONNECTICUT	CONN	RDTE/Other Defense-Basic Research	67
UNIVERSITY OF DAYTON INC	ARIZONA	RDTE/Other Defense-Basic Research	103
	OHIO	RDTE/Other Defense-Basic Research	2,487
			2,590
CONTRACTOR TOTAL			
UNIVERSITY OF DENVER	COLORADO	RDTE/Other Defense-Basic Research	717
UNIVERSITY OF HAWAII	HAWAII	RDTE/Other Defense-Basic Research	469
UNIVERSITY OF ILLINOIS	ILLINOIS	RDTE/Other Defense-Basic Research	76
		RDTE/Other Defense-Basic Research	933
		RDTE/Other Defense-Basic Research	230
	STATE TOTAL		1,239
UNIVERSITY OF IOWA THE	IOWA	RDTE/Other Defense-Basic Research	105
UNIVERSITY OF KENTUCKY	KENTUCKY	RDTE/Other Defense-Basic Research	40
UNIVERSITY OF MARYLAND	MARYLAND	RDTE/Other Defense-Basic Research	2,996
UNIVERSITY OF MASSACHUSETTS	MASS	RDTE/Other Defense-Basic Research	745
UNIVERSITY OF MIAMI	FLORIDA	RDTE/Other Defense-Basic Research	58
UNIVERSITY OF MICHIGAN	MICHIGAN	RDTE/Other Defense-Basic Research	2,637
UNIVERSITY OF MINNESOTA	MINNESOTA	RDTE/Other Defense-Basic Research	149
		RDTE/Other Defense-Basic Research	155

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AD91 (CONTINUED)

UNIVERSITY OF NEBRASKA	Nebraska	NAVY	RDTE/Other	Defense-Basic Research	304
UNIVERSITY OF NEW ORLEANS	Louisiana	NAVY	RDTE/Other	Defense-Basic Research	76
UNIVERSITY OF NORTH TEXAS	Texas	USAF	RDTE/Other	Defense-Basic Research	127
UNIVERSITY OF NOTRE DAME	Indiana	NAVY	RDTE/Other	Defense-Basic Research	74
		USAF	RDTE/Other	Defense-Basic Research	50
					48
					98
STATE TOTAL					
UNIVERSITY OF OKLAHOMA	Oklahoma	NAVY	RDTE/Other	Defense-Basic Research	50
UNIVERSITY OF PENNSYLVANIA	Penn	NAVY	RDTE/Other	Defense-Basic Research	1,554
UNIVERSITY OF PITTSBURGH	Penn	NAVY	RDTE/Other	Defense-Basic Research	206
UNIVERSITY OF RHODE ISLAND	Rhode Isl	NAVY	RDTE/Other	Defense-Basic Research	148
UNIVERSITY OF ROCHESTER	New York	NAVY	RDTE/Other	Defense-Basic Research	326
UNIVERSITY OF SOUTH FLORIDA	Florida	NAVY	RDTE/Other	Defense-Basic Research	33
UNIVERSITY OF SOUTHERN CALIF	California	ARMY	RDTE/Other	Defense-Basic Research	6,321
		NAVY	RDTE/Other	Defense-Basic Research	856
					7,177
STATE TOTAL					
UNIVERSITY OF TENNESSEE	Tennessee	NAVY	RDTE/Other	Defense-Basic Research	91
UNIVERSITY OF TEXAS SYSTEM	Texas	ARMY	RDTE/Other	Defense-Basic Research	140
		NAVY	RDTE/Other	Defense-Basic Research	346
					486
STATE TOTAL					
UNIVERSITY OF UTAH	Utah	NAVY	RDTE/Other	Defense-Basic Research	800
		USAF	RDTE/Other	Defense-Basic Research	28
					828
STATE TOTAL					
UNIVERSITY OF VIRGINIA	Virginia	NAVY	RDTE/Other	Defense-Basic Research	50
UNIVERSITY OF WASHINGTON	Washington	NAVY	RDTE/Other	Defense-Basic Research	2,783
UNIVERSITY OF WISCONSIN SYSTEM	Wisconsin	NAVY	RDTE/Other	Defense-Basic Research	463

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## PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

FISCAL YEAR 1991

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION
AD91 (CONTINUED)				

CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
UNIVERSITY RESEARCH FOUNDATION	Maryland	NAVY	RDTE/Other Defense-Basic Research	102
UTAH BIORESEARCH INC	Utah	NAVY	RDTE/Other Defense-Basic Research	565
VANDERBILT UNIVERSITY THE	Tennessee	NAVY	RDTE/Other Defense-Basic Research	88
VECTOR RESEARCH INC	Maryland	NAVY	RDTE/Other Defense-Basic Research	110
	Michigan	USAF	RDTE/Other Defense-Basic Research	2,837
CONTRACTOR TOTAL				170
VICTORIA INTERNATIONAL LTD	Virginia	NAVY	RDTE/Other Defense-Basic Research	45
VISION APPLICATION INC	New York	NAVY	RDTE/Other Defense-Basic Research	215
WAGNER DANIEL H ASSOCIATES	Penn	NAVY	RDTE/Other Defense-Basic Research	967
WESTINGHOUSE ELECTRIC CORP	Maryland	ARMY	RDTE/Other Defense-Basic Research	300
		NAVY	RDTE/Other Defense-Basic Research	55
STATE TOTAL				2,317
				1,500
				3,817
CONTRACTOR TOTAL				382
WOODS HOLE OCNRPIC INSTUTE	Mass	NAVY	RDTE/Other Defense-Basic Research	4,199
WRIGHT STATE UNIVERSITY	Ohio	USAF	RDTE/Other Defense-Basic Research	2,518
XEROX CORP	California	NAVY	RDTE/Other Defense-Basic Research	481
	New York	NAVY	RDTE/Other Defense-Basic Research	155
CONTRACTOR TOTAL				59
XONTECH INC	California	NAVY	RDTE/Other Defense-Basic Research	214
XYBION CORPORATION	New Jersey	NAVY	RDTE/Other Defense-Basic Research	435
YALE UNIVERSITY	Conn	NAVY	RDTE/Other Defense-Basic Research	164
R&D TOTAL				372
				452,764

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD92	3 D INFORMATICS	N Carolina	ARMY	RDTE/Other Defense-Exploratory Development	50
	A A I CORPORATION	Maryland	ARMY	RDTE/Other Defense-Exploratory Development	276
	A P A OPTICS INC	Minnesota	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	100 230
		STATE TOTAL			330
	A R CABLE SERVICES INC	Mass	ARMY	RDTE/Other Defense-Exploratory Development	548
	ACTA INCORPORATED	California	ARMY	RDTE/Other Defense-Exploratory Development	113
	ACTRAN SYSTEMS INC	Florida	NAVY	RDTE/Other Defense-Exploratory Development	2,813
	ACUREX CORPORATION	California	USAF	RDTE/Other Defense-Exploratory Development	200
		Ohio	USAF	RDTE/Other Defense-Exploratory Development	37
	CONTRACTOR TOTAL				237
	ADAPTIVE SENSORS INC	California	USAF	RDTE/Other Defense-Exploratory Development	49
	ADAPTIVE SOLUTIONS INC	Oregon	ARMY	RDTE/Other Defense-Exploratory Development	98
	ADTECH SYSTEM RESEARCH INC	Ohio	USAF	RDTE/Other Defense-Exploratory Development	312
	ADVANCED DECISION SYSTEMS	California	NAVY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	50 828
		STATE TOTAL			878
	ADVANCED FUEL RESEARCH INC	Conn	ARMY	RDTE/Other Defense-Exploratory Development	57
	ADVANCED MARINE ENTERPRISES	Virginia	NAVY	RDTE/Other Defense-Exploratory Development	218
	ADVANCED MOTION CONTROLS INC	Wisconsin	ARMY	RDTE/Other Defense-Exploratory Development	64
	ADVANCED PROJECTS RESEARCH INC	California	ARMY	RDTE/Other Defense-Exploratory Development	395
	ADVANCED RES & APPLICATIONS	California	ARMY NAVY	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	468 77
		STATE TOTAL			545
		Ohio	USAF	RDTE/Other Defense-Exploratory Development	250
	CONTRACTOR TOTAL				795
	ADVANCED SYSTEMS TECHNOLOGIES	Colorado	NAVY	RDTE/Other Defense-Exploratory Development	43

## PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AD92 (CONTINUED)					
	ADVANCED SYSTEMS TECHNOLOGY	Oklahoma	ARMY	RDTE/Other Defense-Exploratory Development	\$ 330
	ADVANCED TECHNOLOGY & RESEARCH	Maryland	ARMY	RDTE/Other Defense-Exploratory Development	42
	ADVANCED TECHNOLOGY MATERIALS	Conn	ARMY NAVY	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	110 240
		STATE TOTAL			350
	AEROCON INC	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	563
	AERODYNE RESEARCH INC	Mass	ARMY	RDTE/Other Defense-Exploratory Development	312
	AEROJET	California	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	494 31-
		STATE TOTAL			463
	AEROSPATIALE	FRANCE	USAF	RDTE/Other Defense-Exploratory Development	100
	AEROTHERM CORPORATION	California	USAF	RDTE/Other Defense-Exploratory Development	55
		Ohio	USAF	RDTE/Other Defense-Exploratory Development	469
	CONTRACTOR TOTAL				524
	AEROVIRONMENT INC	California	ARMY NAVY	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	47 50
		STATE TOTAL			97
	ALABAMA A & M UNIVERSITY	Alabama	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	73 134
		STATE TOTAL			207
	ALLIANT TECHSYSTEMS INC	Minnesota	ARMY	RDTE/Other Defense-Exploratory Development	3,582
		Virginia	ARMY	RDTE/Other Defense-Exploratory Development	349
	CONTRACTOR TOTAL				3,931
	ALLIED SIGNAL AEROSPACE CO	California	USAF	RDTE/Other Defense-Exploratory Development	341
		Maryland	ARMY NAVY	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	4,122 245

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AD92 (CONTINUED)					

STATE TOTAL		\$	
Nevada	ARMY	RDTE/Other Defense-Exploratory Development	4,367

## CONTRACTOR TOTAL

ALLIED SIGNAL INC

Arizona	USAF	RDTE/Other Defense-Exploratory Development	544
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California	USAF	RDTE/Other Defense-Exploratory Development	5,252
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Illinois	ARMY	RDTE/Other Defense-Exploratory Development	1,639
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	USAF	RDTE/Other Defense-Exploratory Development	305
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			100
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			425
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			525
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			2,469
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			50
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			55
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			28
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			300
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			50
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			58
--	--	--	----

			220
--	--	--	-----

			39
--	--	--	----

			105
--	--	--	-----

			300
--	--	--	-----

			405
--	--	--	-----

			497
--	--	--	-----

			277
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			611
--	--	--	-----

			826
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			247
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PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AD92 (CONTINUED)					
	CONTRACTOR TOTAL				\$
	ANALYSIS & TECHNOLOGY INC	Virginia	NAVY	RDTE/Other Defense-Exploratory Development	49
		Conn	ARMY	RDTE/Other Defense-Exploratory Development	296
		Miss	NAVY	RDTE/Other Defense-Exploratory Development	300
	CONTRACTOR TOTAL				592
	ANALYTIC SCIENCE CORP THE	Mass	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	892 135 405
	STATE TOTAL				540
		Ohio	USAF	RDTE/Other Defense-Exploratory Development	486
	CONTRACTOR TOTAL				1,026
	ANALYTICAL SYSTEMS ENRG CORP	Maryland	NAVY	RDTE/Other Defense-Exploratory Development	179
		Mass	ARMY	RDTE/Other Defense-Exploratory Development	740
	CONTRACTOR TOTAL				919
	ANALYTICS INCORPORATED	Maryland	ARMY	RDTE/Other Defense-Exploratory Development	200
		Penn	ARMY	RDTE/Other Defense-Exploratory Development	218
	CONTRACTOR TOTAL				418
	ANDERSEN ARTHUR & CO	Illinois	USAF	RDTE/Other Defense-Exploratory Development	943
	ANRO ENGINEERING INC	Mass	ARMY	RDTE/Other Defense-Exploratory Development	244
	ANTHROPOLOGY RESEARCH PROJECT	Ohio	USAF	RDTE/Other Defense-Exploratory Development	224
	ANZA RESEARCH INC	California	ARMY	RDTE/Other Defense-Exploratory Development	50
	APPLIED COMPUTING SYSTEMS INC	New Mexico	ARMY	RDTE/Other Defense-Exploratory Development	2,831
	APPLIED PULSED POWER	New York	ARMY	RDTE/Other Defense-Exploratory Development	50
	APPLIED RESEARCH ASSOC INC	Colorado	NAVY	RDTE/Other Defense-Exploratory Development	49
		Maryland	ARMY	RDTE/Other Defense-Exploratory Development	227

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AD92 (CONTINUED)

	CONTRACTOR TOTAL				
	APPLIED RESEARCH INC	New Mexico	ARMY	RDTE/Other Defense-Exploratory Development	\$ 377
	APPLIED SCIENCES INC	Vermont	ARMY	RDTE/Other Defense-Exploratory Development	350
	APPLIED TECHNOLOGY LABORATORY	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	411
	APPLIED THEORY INC	Alabama	ARMY	RDTE/Other Defense-Exploratory Development	1,414
	APTECH ENGINEERING SERVICES	Ohio	ARMY	RDTE/Other Defense-Exploratory Development	289
	APTEK INC	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	63
		California	ARMY	RDTE/Other Defense-Exploratory Development	64
		Alabama	ARMY	RDTE/Other Defense-Exploratory Development	493
		California	ARMY	RDTE/Other Defense-Exploratory Development	53
		Colorado	ARMY	RDTE/Other Defense-Exploratory Development	100
	CONTRACTOR TOTAL				1,312
	ARES CORPORATION	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	1,412
	ARGO TECH CORPORATION	Ohio	USAF	RDTE/Other Defense-Exploratory Development	691
	ARIZONA STATE UNIVERSITY	Arizona	USAF	RDTE/Other Defense-Exploratory Development	166
	ARPEDA CORPORATION	Kansas	ARMY	RDTE/Other Defense-Exploratory Development	30
	ASHTECH INC	California	NAVY	RDTE/Other Defense-Exploratory Development	48
	ASPEN SYSTEMS INC	Mass	ARMY	RDTE/Other Defense-Exploratory Development	60-
	ASPEX MICROSYSTEMS LIMITED	UNITED KIN	USAF	RDTE/Other Defense-Exploratory Development	50
	ATLANTIC AEROSPACE ELECTRONICS	Maryland	ARMY	RDTE/Other Defense-Exploratory Development	218
			NAVY	RDTE/Other Defense-Exploratory Development	958
	STATE TOTAL				65
	ATLANTIC RESEARCH CORPORATION	Arkansas	ARMY	RDTE/Other Defense-Exploratory Development	1,023
		California	USAF	RDTE/Other Defense-Exploratory Development	91
					204

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AD92 (CONTINUED)					

D.C.	NAVY	RDTE/Other Defense-Exploratory Development	\$	136
Maryland	ARMY	RDTE/Other Defense-Exploratory Development		90
New York	USAF	RDTE/Other Defense-Exploratory Development		327
Ohio	USAF	RDTE/Other Defense-Exploratory Development		100
Virginia	ARMY	RDTE/Other Defense-Exploratory Development		1,219
	USAF	RDTE/Other Defense-Exploratory Development		50
				1,269
				2,217
				1,093
				56
				445
				250
				2,360
				572
				1,500
				175
				1,232
				563
				1,795
				1,970
				250
				28
				1,146
				86
				300

## STATE TOTAL

## CONTRACTOR TOTAL

ATOCHEM	Penn	ARMY	RDTE/Other Defense-Exploratory Development		
ATOM SCIENCES INC	Tennessee	ARMY	RDTE/Other Defense-Exploratory Development		
AUBURN UNIVERSITY	Alabama	ARMY	RDTE/Other Defense-Exploratory Development		
AUSTIN RESEARCH ASSOCIATES	Texas	ARMY	RDTE/Other Defense-Exploratory Development		
AUTOMATION RES SYSTEMS LTD	Virginia	ARMY	RDTE/Other Defense-Exploratory Development		
AUTOMETRIC INC	Virginia	ARMY	RDTE/Other Defense-Exploratory Development		
AVANTEK INC	California	USAF	RDTE/Other Defense-Exploratory Development		
AVCO CORPORATION	Conn	USAF	RDTE/Other Defense-Exploratory Development		
	Mass	ARMY	RDTE/Other Defense-Exploratory Development		
		USAF	RDTE/Other Defense-Exploratory Development		

## STATE TOTAL

## CONTRACTOR TOTAL

AVOGADRO ENERGY SYSTEMS INC	New York	ARMY	RDTE/Other Defense-Exploratory Development		
AVTEL FLIGHT SERVICES	California	NAVY	RDTE/Other Defense-Exploratory Development		
BAAS CORPORATION	Alabama	ARMY	RDTE/Other Defense-Exploratory Development		
BAKER WILFRED ENGINEERING	Texas	NAVY	RDTE/Other Defense-Exploratory Development		
BALL CORPORATION	Colorado	ARMY	RDTE/Other Defense-Exploratory Development		

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AD92 (CONTINUED)					
	CONTRACTOR TOTAL				\$
	BATTELLE MEMORIAL INSTITUTE	Ohio	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	100 400 3,791 1,069 4,860
		STATE TOTAL			
	BAYLESS JOHN R CO	California	ARMY	RDTE/Other Defense-Exploratory Development	120
	BDM INTERNATIONAL INC	California	ARMY	RDTE/Other Defense-Exploratory Development	350
		New Mexico	ARMY	RDTE/Other Defense-Exploratory Development	5,494
		Virginia	ARMY NAVY	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	8,177 787 8,964
		STATE TOTAL			14,808
	CONTRACTOR TOTAL				
	BECHDON COMPANY INC	Maryland	NAVY	RDTE/Other Defense-Exploratory Development	46
	BECHTEL NATIONAL INC	California	ARMY	RDTE/Other Defense-Exploratory Development	485
	BEI ELECTRONICS INC	Texas	ARMY	RDTE/Other Defense-Exploratory Development	246
	BENCHMARK STRUCTURAL CERAMICS	New York	ARMY	RDTE/Other Defense-Exploratory Development	50
	BEND RESEARCH INC	Oregon	ARMY	RDTE/Other Defense-Exploratory Development	97
	BERKELEY RESEARCH ASSOCIATES	California	ARMY NAVY	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	1,012 71 1,083
		STATE TOTAL			1,977
		Virginia	ARMY	RDTE/Other Defense-Exploratory Development	3,060
	CONTRACTOR TOTAL				
	BGI INC	Mass	ARMY	RDTE/Other Defense-Exploratory Development	76
	BLACK & DECKER CORPORATION	Virginia	USAF	RDTE/Other Defense-Exploratory Development	125
	BLACKBOARD TECHNOLOGY GROUP	Mass	ARMY	RDTE/Other Defense-Exploratory Development	44

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AD92	(CONTINUED)				
	BLAZETECH CORPORATION	Mass	NAVY	RDTE/Other Defense-Exploratory Development	\$ 78
	BOEING AEROSPACE & ELECTRONICS	Alabama	ARMY	RDTE/Other Defense-Exploratory Development	5,741
		Washington	ARMY	RDTE/Other Defense-Exploratory Development	285
			USAF	RDTE/Other Defense-Exploratory Development	293
	STATE TOTAL				578
	CONTRACTOR TOTAL				6,319
	BOEING COMPANY THE	Washington	NAVY	RDTE/Other Defense-Exploratory Development	127
			USAF	RDTE/Other Defense-Exploratory Development	743
	STATE TOTAL				870
	BOLT BERANEK & NEWMAN INC	Mass	ARMY	RDTE/Other Defense-Exploratory Development	5,327
			NAVY	RDTE/Other Defense-Exploratory Development	2,138
			USAF	RDTE/Other Defense-Exploratory Development	461
	STATE TOTAL				7,926
	CONTRACTOR TOTAL	Virginia	USAF	RDTE/Other Defense-Exploratory Development	7,926
	BOOZ ALLEN & HAMILTON INC	Maryland	ARMY	RDTE/Other Defense-Exploratory Development	2,779
			USAF	RDTE/Other Defense-Exploratory Development	277
	STATE TOTAL				3,056
	CONTRACTOR TOTAL	Texas	USAF	RDTE/Other Defense-Exploratory Development	400
		Virginia	USAF	RDTE/Other Defense-Exploratory Development	216
					3,672
	BREWER SCIENCE INC	Missouri	USAF	RDTE/Other Defense-Exploratory Development	50
	BRIMROSE CORP OF AMERICA	Maryland	ARMY	RDTE/Other Defense-Exploratory Development	48
	BROADCOM INC	New York	USAF	RDTE/Other Defense-Exploratory Development	50
	BROWN UNIVERSITY	Rhode Isld	USAF	RDTE/Other Defense-Exploratory Development	88
	BRTIC INC	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	283

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
	AD92 (CONTINUED)				
	BRUNSWICK CORPORATION	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	1,248
	BUCK A J & SON INC	Maryland	ARMY	RDTE/Other Defense-Exploratory Development	33
	C LEC PLASTICS INC	New Jersey	ARMY	RDTE/Other Defense-Exploratory Development	93
	C V C PRODUCTS INC DEL	New York	NAVY	RDTE/Other Defense-Exploratory Development	340
	CAE INDUSTRIES LTD	Arizona	USAF	RDTE/Other Defense-Exploratory Development	1,951
	CAELUM RESEARCH CORP	Maryland	USAF	RDTE/Other Defense-Exploratory Development	90
	CALIFORNIA RES & TECHNOLOGY	California	ARMY	RDTE/Other Defense-Exploratory Development	2,777
	CONTRACTOR TOTAL	New Jersey	ARMY	RDTE/Other Defense-Exploratory Development	150
	CALL RECALL	California	USAF	RDTE/Other Defense-Exploratory Development	2,927
	CALSPAN CORPORATION	Alabama	USAF	RDTE/Other Defense-Exploratory Development	525
		California	USAF	RDTE/Other Defense-Exploratory Development	30
		Mass	USAF	RDTE/Other Defense-Exploratory Development	45
		New Jersey	USAF	RDTE/Other Defense-Exploratory Development	139
		New York	USAF	RDTE/Other Defense-Exploratory Development	56
			ARMY	RDTE/Other Defense-Exploratory Development	1,000
			NAVY	RDTE/Other Defense-Exploratory Development	73
			USAF	RDTE/Other Defense-Exploratory Development	5,610
	STATE TOTAL				6,683
		Ohio	USAF	RDTE/Other Defense-Exploratory Development	5,191
		Texas	USAF	RDTE/Other Defense-Exploratory Development	1,414
		Virginia	USAF	RDTE/Other Defense-Exploratory Development	25
	CONTRACTOR TOTAL	CANADA	USAF	RDTE/Other Defense-Exploratory Development	13,583
	CANADIAN COMMERCIAL CORP	Maryland	ARMY	RDTE/Other Defense-Exploratory Development	378
	CARDINAL SCIENTIFIC	Penn	ARMY	RDTE/Other Defense-Exploratory Development	262
	CARNEGIE MELLON UNIVERSITY				8,132

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AD92 (CONTINUED)

	USAF	RDTE/Other Defense-Exploratory Development	\$
STATE TOTAL			
CARPENTER RESEARCH CORP	California	RDTE/Other Defense-Exploratory Development	154
CARTWRIGHT ELECTRONICS INC	California	RDTE/Other Defense-Exploratory Development	379
CAS INC	Alabama	RDTE/Other Defense-Exploratory Development	11,133
CASCADE MICROTECH INC	Oregon	RDTE/Other Defense-Exploratory Development	96
CEMCOM RESEARCH ASSOCIATES	Maryland	RDTE/Other Defense-Exploratory Development	68-
CENTER FOR REMOTE SENSING	Virginia	RDTE/Other Defense-Exploratory Development	50
CENTURY COMPUTING INC	Maryland	RDTE/Other Defense-Exploratory Development	185
CERACON INC	California	RDTE/Other Defense-Exploratory Development	101
CHAN COMPUTER CORP	Mass	RDTE/Other Defense-Exploratory Development	139
CHARLES RIVER ANALYTICS INC	Mass	RDTE/Other Defense-Exploratory Development	99
CHARLES SYSTEMS CORP	Michigan	RDTE/Other Defense-Exploratory Development	429
	USAF	RDTE/Other Defense-Exploratory Development	50
STATE TOTAL			
CHI SYSTEMS INC	Penn	RDTE/Other Defense-Exploratory Development	479
CHIRP CORP	California	RDTE/Other Defense-Exploratory Development	55
CIMFLEX TEKKNOWLEDGE CORP	California	RDTE/Other Defense-Exploratory Development	50
CLARKSON UNIVERSITY	New York	RDTE/Other Defense-Exploratory Development	1,025
CLEMSON UNIVERSITY	S Carolina	RDTE/Other Defense-Exploratory Development	100
COGENTEX INC	New York	RDTE/Other Defense-Exploratory Development	125
COGNITECH INC	California	RDTE/Other Defense-Exploratory Development	56
COGNITIVE SYSTEMS INC	Conn	RDTE/Other Defense-Exploratory Development	248
COHERENT TECHNOLOGIES INC	Colorado	RDTE/Other Defense-Exploratory Development	50
COLDING INTL CORP	Michigan	RDTE/Other Defense-Exploratory Development	99
	ARMY	RDTE/Other Defense-Exploratory Development	50

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD92 (CONTINUED)	COLE PARMER INSTRUMENT CO	Illinois	ARMY	RDTE/Other Defense-Exploratory Development	27
	COLEMAN RESEARCH CORPORATION	Florida	ARMY	RDTE/Other Defense-Exploratory Development	100
	COLORADO STATE UNIVERSITY	Colorado	NAVY	RDTE/Other Defense-Exploratory Development	100
			USAF	RDTE/Other Defense-Exploratory Development	370
	COLSA INC	STATE TOTAL			470
	COLUMBIA UNIVERSITY	Alabama	ARMY	RDTE/Other Defense-Exploratory Development	3,530
	COMAR INC	New York	USAF	RDTE/Other Defense-Exploratory Development	40
	COMMUNICATIONS SATELLITE CORP	Texas	ARMY	RDTE/Other Defense-Exploratory Development	294
	COMPACT SOFTWARE INC	D.C.	USAF	RDTE/Other Defense-Exploratory Development	73
	COMPLEX SYSTEMS RESEARCH INC	New Jersey	ARMY	RDTE/Other Defense-Exploratory Development	42
	COMPOUND ENGINE CONSULTANTS IN	Maryland	ARMY	RDTE/Other Defense-Exploratory Development	55
	COMPREHENSIVE TECHNOLOGIES INTL	Arizona	ARMY	RDTE/Other Defense-Exploratory Development	235
	COMPUDRIVE CORP	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	2,598
	COMPUTATIONAL MECHANICS CORP	Mass	ARMY	RDTE/Other Defense-Exploratory Development	57
	COMPUTER SCIENCES CORPORATION	Texas	USAF	RDTE/Other Defense-Exploratory Development	100
		Alabama	ARMY	RDTE/Other Defense-Exploratory Development	3,504
		Maryland	ARMY	RDTE/Other Defense-Exploratory Development	58-
	CONTRACTOR TOTAL				3,446
	COMSTRON CORPORATION	New York	NAVY	RDTE/Other Defense-Exploratory Development	96
	CONCEPT ENGINEERING	Washington	ARMY	RDTE/Other Defense-Exploratory Development	266
	CONCEPTS ETI INC	Vermont	NAVY	RDTE/Other Defense-Exploratory Development	478
	CONCURRENT COMPUTER CORP	New Jersey	USAF	RDTE/Other Defense-Exploratory Development	700
	CONDOR SYSTEMS INC	California	ARMY	RDTE/Other Defense-Exploratory Development	49
	CONDUCTUS INC	California	NAVY	RDTE/Other Defense-Exploratory Development	100

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## PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

FISCAL YEAR 1991

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD92 (CONTINUED)					
	CONTROL DATA CANADA LTD	CANADA	NAVY	RDTE/Other Defense-Exploratory Development	41
	CONVEX COMPUTER CORPORATION	Maryland	NAVY	RDTE/Other Defense-Exploratory Development	250
	CORBETT TECHNOLOGY COMPANY	Alabama	ARMY	RDTE/Other Defense-Exploratory Development	188
	CORNELL UNIVERSITY	New York	ARMY	RDTE/Other Defense-Exploratory Development	3,675
			NAVY	RDTE/Other Defense-Exploratory Development	175
			USAF	RDTE/Other Defense-Exploratory Development	91
			STATE TOTAL		3,941
	CORNING INC	New York	USAF	RDTE/Other Defense-Exploratory Development	377
	CREARE INC	N.H.	ARMY	RDTE/Other Defense-Exploratory Development	117
			USAF	RDTE/Other Defense-Exploratory Development	100
			STATE TOTAL		217
	CRYSTAL ASSOCIATES INC	New Jersey	ARMY	RDTE/Other Defense-Exploratory Development	50
	CRYSTALLUME	California	ARMY	RDTE/Other Defense-Exploratory Development	63
			NAVY	RDTE/Other Defense-Exploratory Development	267
			STATE TOTAL		330
	CSA ENGINEERING INC	Ohio	USAF	RDTE/Other Defense-Exploratory Development	784
	CTA INCORPORATED	Ohio	USAF	RDTE/Other Defense-Exploratory Development	30
	CUSTOM ANALYTICAL ENGRG SYSTEMS	Maryland	ARMY	RDTE/Other Defense-Exploratory Development	50
	CYBER OPTICS CORPORATION	Minnesota	ARMY	RDTE/Other Defense-Exploratory Development	49
	DAEDALUS RESEARCH INC	Utah	ARMY	RDTE/Other Defense-Exploratory Development	404
	DAMASKOS INC	Penn	NAVY	RDTE/Other Defense-Exploratory Development	132
	DATAKEY INC	Minnesota	ARMY	RDTE/Other Defense-Exploratory Development	65
	DAVID SARNOFF RESEARCH CENTER	California	USAF	RDTE/Other Defense-Exploratory Development	727
		New Jersey	ARMY	RDTE/Other Defense-Exploratory Development	5,165
			NAVY	RDTE/Other Defense-Exploratory Development	223
			STATE TOTAL		5,388

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AD92 (CONTINUED)					
	CONTRACTOR TOTAL				\$ 6,115
	DAVIDSON ELEC	Maryland	NAVY	RDTE/Other Defense-Exploratory Development	33
	DAWN TECHNOLOGIES INC	California	ARMY	RDTE/Other Defense-Exploratory Development	50
	DAY & ZIMMERMANN INC	Penn	ARMY	RDTE/Other Defense-Exploratory Development	168
	DAYCHEM LABORATORIES INC	Ohio	USAF	RDTE/Other Defense-Exploratory Development	175
	DECISION SCIENCE APPLICATIONS	Virginia	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	324 130
			STATE TOTAL		454
	DEFENSE GROUP INC	California	ARMY	RDTE/Other Defense-Exploratory Development	200
	DEFENSE RESEARCH TECHNOLOGIES	Maryland	ARMY	RDTE/Other Defense-Exploratory Development	55
	DELFIN SYSTEMS	California	USAF	RDTE/Other Defense-Exploratory Development	212
	DELTA G CORPORATION MN	California	ARMY	RDTE/Other Defense-Exploratory Development	50
	DFM ENGINEERING INC	Colorado	ARMY	RDTE/Other Defense-Exploratory Development	46
	DGI INDUSTRIES INC	Oregon	NAVY	RDTE/Other Defense-Exploratory Development	1,240
		Virginia	NAVY	RDTE/Other Defense-Exploratory Development	190-
	CONTRACTOR TOTAL				1,050
	DIEHL GMBH & CO	GERMANY	ARMY	RDTE/Other Defense-Exploratory Development	645
	DIGITAL EQUIPMENT CORPORATION	Maryland	NAVY	RDTE/Other Defense-Exploratory Development	436
	DIGITAL SIGNAL CORPORATION	Virginia	ARMY NAVY	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	53 690
			STATE TOTAL		743
	DIMENSION TECHNOLOGIES INC	New York	USAF	RDTE/Other Defense-Exploratory Development	120
	DIRECTED TECHNOLOGIES INC	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	70
	DISPLAYTECH INC	Colorado	ARMY	RDTE/Other Defense-Exploratory Development	258
	DISTRICT COLUMBIA GOVERNMENT	D.C.	ARMY	RDTE/Other Defense-Exploratory Development	44
	DOUGLAS AIRCRAFT COMPANY	California	USAF	RDTE/Other Defense-Exploratory Development	170

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(AMOUNTS IN THOUSANDS)

CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AD92 (CONTINUED)				
DOW CHEMICAL COMPANY THE	Michigan	USAF	RDTE/Other Defense-Exploratory Development	\$ 468
DRAPER CHARLES STARK LAB INC	Mass	ARMY	RDTE/Other Defense-Exploratory Development	860
		USAF	RDTE/Other Defense-Exploratory Development	721
	STATE TOTAL			1,581
DRESSER RAND COMPANY	New York	NAVY	RDTE/Other Defense-Exploratory Development	171
DU PONT E I DE NEMOURS & CO	Delaware	ARMY	RDTE/Other Defense-Exploratory Development	4,916
		USAF	RDTE/Other Defense-Exploratory Development	900
	STATE TOTAL			5,816
DUKE UNIVERSITY	N Carolina	NAVY	RDTE/Other Defense-Exploratory Development	127
DYNA EAST CORPORATION	Penn	ARMY	RDTE/Other Defense-Exploratory Development	49
DYNAFLOW INC	Ohio	USAF	RDTE/Other Defense-Exploratory Development	146
DYNAMIC CONTROLS INC	Ohio	USAF	RDTE/Other Defense-Exploratory Development	60
DYNAMICS TECHNOLOGY	California	NAVY	RDTE/Other Defense-Exploratory Development	147
DYNACORP	Ohio	USAF	RDTE/Other Defense-Exploratory Development	149
DYNETICS INC	Alabama	ARMY	RDTE/Other Defense-Exploratory Development	7,278
E C CORPORATION OF OAK RIDGE	Alabama	ARMY	RDTE/Other Defense-Exploratory Development	23
	Georgia	ARMY	RDTE/Other Defense-Exploratory Development	98
	CONTRACTOR TOTAL			121
E I C LABORATORY INC	Mass	ARMY	RDTE/Other Defense-Exploratory Development	309
E OIR MEASUREMENTS INC	Virginia	USAF	RDTE/Other Defense-Exploratory Development	100
E SYSTEMS INC	Texas	ARMY	RDTE/Other Defense-Exploratory Development	2,753
		NAVY	RDTE/Other Defense-Exploratory Development	200
		USAF	RDTE/Other Defense-Exploratory Development	350
	STATE TOTAL			3,303
E TEK DYNAMICS INC	California	ARMY	RDTE/Other Defense-Exploratory Development	144
EAGLE PICHER INDUSTRIES INC	California	USAF	RDTE/Other Defense-Exploratory Development	77

## PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD92 (CONTINUED)					
	CONTRACTOR TOTAL				
	EAGLE SYSTEMS INC	Colorado	USAF	RDTE/Other Defense-Exploratory Development	731
	EAGLE TECHNOLOGY INC	Maryland	NAVY	RDTE/Other Defense-Exploratory Development	808
	EAI CORPORATION	Florida	USAF	RDTE/Other Defense-Exploratory Development	1,184
	EASTERN COMPUTERS INC	Maryland	ARMY	RDTE/Other Defense-Exploratory Development	112
	EASTMAN KODAK COMPANY	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	5,308
		New York	ARMY	RDTE/Other Defense-Exploratory Development	1,506
			USAF	RDTE/Other Defense-Exploratory Development	523
				RDTE/Other Defense-Exploratory Development	264
	STATE TOTAL				787
	EATON CORPORATION	New York	ARMY	RDTE/Other Defense-Exploratory Development	107
			NAVY	RDTE/Other Defense-Exploratory Development	150
			USAF	RDTE/Other Defense-Exploratory Development	47
	STATE TOTAL				304
	EER SYSTEMS CORPORATION	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	2,782
	EG&G INC	New Mexico	ARMY	RDTE/Other Defense-Exploratory Development	600
	EG&G SEALOL INC	Rhode Isld	USAF	RDTE/Other Defense-Exploratory Development	350
	ELECTRO MAGNETIC APPLICATION	Colorado	ARMY	RDTE/Other Defense-Exploratory Development	99
		New Mexico	ARMY	RDTE/Other Defense-Exploratory Development	50
	CONTRACTOR TOTAL				149
	ELECTRO OPTEK CORPORATION	California	ARMY	RDTE/Other Defense-Exploratory Development	48
	ELECTROCHEM INC	Mass	ARMY	RDTE/Other Defense-Exploratory Development	56
	ELECTRONIC ASSOCIATES INC	New Jersey	ARMY	RDTE/Other Defense-Exploratory Development	1,755
	ELECTRONIC COMPONENT SALES	Maryland	ARMY	RDTE/Other Defense-Exploratory Development	85
			NAVY	RDTE/Other Defense-Exploratory Development	44
	STATE TOTAL				129
	ELECTRONIC DECISIONS INC	Illinois	ARMY	RDTE/Other Defense-Exploratory Development	191

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## PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AD92 (CONTINUED)

	USAF	RDTE/Other Defense-Exploratory Development	\$
STATE TOTAL			
ELTRON RESEARCH INCORPORATED	ARMY	RDTE/Other Defense-Exploratory Development	5,500
EMC SCIENCE CTR INC	NAVY	RDTE/Other Defense-Exploratory Development	5,691
EMCORE CORPORATION	ARMY	RDTE/Other Defense-Exploratory Development	50
ENERGY COMPRESSION RES CORP	ARMY	RDTE/Other Defense-Exploratory Development	1,706
ENERGY CONVERSION DEVICES INC	ARMY	RDTE/Other Defense-Exploratory Development	50
ENGINEERING & ECONOMICS RES	ARMY	RDTE/Other Defense-Exploratory Development	332
	ARMY	RDTE/Other Defense-Exploratory Development	375
	ARMY	RDTE/Other Defense-Exploratory Development	145
	ARMY	RDTE/Other Defense-Exploratory Development	4,596
	ARMY	RDTE/Other Defense-Exploratory Development	4,741
	ARMY	RDTE/Other Defense-Exploratory Development	2,656
CONTRACTOR TOTAL			
ENGINEERING TECHNOLOGIES INC	ARMY	RDTE/Other Defense-Exploratory Development	228
ENGINEERING TECHNOLOGY INC	ARMY	RDTE/Other Defense-Exploratory Development	2,909
ENSCO INC	NAVY	RDTE/Other Defense-Exploratory Development	444
	USAF	RDTE/Other Defense-Exploratory Development	56
	STATE TOTAL		3,409
ENSIGN BICKFORD AEROSPACE CO	ARMY	RDTE/Other Defense-Exploratory Development	150
ENTERPRISE INTEGRATION TECHNOL	ARMY	RDTE/Other Defense-Exploratory Development	97
ENTROPIC RESEARCH LABORATORY I	ARMY	RDTE/Other Defense-Exploratory Development	300
ENVIRNMENTAL RES INST OF MICH	ARMY	RDTE/Other Defense-Exploratory Development	3,595
	NAVY	RDTE/Other Defense-Exploratory Development	176
	USAF	RDTE/Other Defense-Exploratory Development	702
	STATE TOTAL		4,473
ENVIRONMENTAL DIAGNOSTICS	NAVY	RDTE/Other Defense-Exploratory Development	60
ENVIRONMENTAL TECHNOLOGIES GRP	ARMY	RDTE/Other Defense-Exploratory Development	3,166
EPSILON LAMBDA ELECTRONICS	ARMY	RDTE/Other Defense-Exploratory Development	249

## PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

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(AMOUNTS IN THOUSANDS)

CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD92 (CONTINUED)				
EQUIMAX COMMUNICATIONS CORP	New Jersey	ARMY	RDTE/Other Defense-Exploratory Development	57
ERNAT MACH INSTITUTE	GERMANY	ARMY	RDTE/Other Defense-Exploratory Development	200
ESL INCORPORATED	California	ARMY	RDTE/Other Defense-Exploratory Development	722
EXCEL TECHNOLOGY INC	New York	ARMY	RDTE/Other Defense-Exploratory Development	245
FALCON ASSOCIATES	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	3,394
FIBERTEK INC	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	3,288-
FILTRONIC COMPONENTS	UNITED KIN	NAVY	RDTE/Other Defense-Exploratory Development	80
FLORIDA A & M UNIVERSITY	Florida	USAF	RDTE/Other Defense-Exploratory Development	96
FLORIDA INTERNATIONAL UNIV	Florida	ARMY	RDTE/Other Defense-Exploratory Development	73
FLOUROCHEM INC	California	ARMY	RDTE/Other Defense-Exploratory Development	116
FLUIDYNE ENGINEERING CORP	Minnesota	USAF	RDTE/Other Defense-Exploratory Development	55
FMC CORPORATION	California	ARMY	RDTE/Other Defense-Exploratory Development	498
		USAF	RDTE/Other Defense-Exploratory Development	114
			STATE TOTAL	612
	Minnesota	ARMY	RDTE/Other Defense-Exploratory Development	7,016
				7,628
CONTRACTOR TOTAL				
FORE SYSTEMS INC	Penn	NAVY	RDTE/Other Defense-Exploratory Development	250
FOSTER MILLER INC	Mass	ARMY	RDTE/Other Defense-Exploratory Development	2,915
FRANZ INC	California	ARMY	RDTE/Other Defense-Exploratory Development	50
FREDERICK MANUFACTURING CO	D.C.	NAVY	RDTE/Other Defense-Exploratory Development	195
FUENTEZ SYSTEMS CONCEPTS INC	Virginia	USAF	RDTE/Other Defense-Exploratory Development	198
FUTURES GROUP INC	Conn	ARMY	RDTE/Other Defense-Exploratory Development	59
GARJAK RESEARCH INC	California	ARMY	RDTE/Other Defense-Exploratory Development	1,262
GATEWAY MODELING INC	Minnesota	ARMY	RDTE/Other Defense-Exploratory Development	50

## PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	DESCRIPTION	
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AD92 (CONTINUED)

GELTECH INC	Florida	ARMY	RDTE/Other Defense-Exploratory Development	\$	50
GEMINI INDUSTRIES INC	New York	USAF	RDTE/Other Defense-Exploratory Development		827
GENERAL ATOMICS	California	ARMY	RDTE/Other Defense-Exploratory Development		68
		USAF	RDTE/Other Defense-Exploratory Development		50
	STATE TOTAL				118
GENERAL DYNAMICS CORPORATION	California	ARMY	RDTE/Other Defense-Exploratory Development		25,829
		NAVY	RDTE/Other Defense-Exploratory Development		28
		USAF	RDTE/Other Defense-Exploratory Development		605
	STATE TOTAL				26,462
	Conn	ARMY	RDTE/Other Defense-Exploratory Development		2,020
	Michigan	ARMY	RDTE/Other Defense-Exploratory Development		2,752
	Texas	ARMY	RDTE/Other Defense-Exploratory Development		700
		USAF	RDTE/Other Defense-Exploratory Development		454-
	STATE TOTAL				246
CONTRACTOR TOTAL					31,480
GENERAL ELECTRIC COMPANY	Arizona	USAF	RDTE/Other Defense-Exploratory Development		3,971
	Mass	USAF	RDTE/Other Defense-Exploratory Development		350
	New Jersey	ARMY	RDTE/Other Defense-Exploratory Development		2,253
		NAVY	RDTE/Other Defense-Exploratory Development		65
	STATE TOTAL				2,318
	New York	ARMY	RDTE/Other Defense-Exploratory Development		310
		NAVY	RDTE/Other Defense-Exploratory Development		543
		USAF	RDTE/Other Defense-Exploratory Development		2,289
	STATE TOTAL				3,142
	Ohio	ARMY	RDTE/Other Defense-Exploratory Development		40,761
		USAF	RDTE/Other Defense-Exploratory Development		6,498
	STATE TOTAL				47,259
	Penn	ARMY	RDTE/Other Defense-Exploratory Development		965

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AD92 (CONTINUED)

CONTRACTOR TOTAL	Vermont	ARMY	RDTE/Other Defense-Exploratory Development	\$	928
GENERAL IMAGING CORP	Florida	USAF	RDTE/Other Defense-Exploratory Development		58,933
GENERAL INDICATOR CORPORATION	Virginia	ARMY	RDTE/Other Defense-Exploratory Development		99
GENERAL MGT ASSOCIATES	Maryland	ARMY	RDTE/Other Defense-Exploratory Development		273
GENERAL MOTORS CORPORATION	California	USAF	RDTE/Other Defense-Exploratory Development		1,119
	Conn	ARMY	RDTE/Other Defense-Exploratory Development		50
	Indiana	ARMY	RDTE/Other Defense-Exploratory Development		238
		NAVY	RDTE/Other Defense-Exploratory Development		445
		USAF	RDTE/Other Defense-Exploratory Development		1,234
			RDTE/Other Defense-Exploratory Development		1,389
STATE TOTAL					3,068
					3,356
CONTRACTOR TOTAL	California	USAF	RDTE/Other Defense-Exploratory Development		939
GENERAL RESEARCH CORPORATION	Penn	ARMY	RDTE/Other Defense-Exploratory Development		486
GENERAL SCIENCES INC	New York	ARMY	RDTE/Other Defense-Exploratory Development		50
GENISYS RESEARCH & DEVELOPMENT		USAF	RDTE/Other Defense-Exploratory Development		50
					100
STATE TOTAL					1,834
GEO CENTERS INC	D.C.	NAVY	RDTE/Other Defense-Exploratory Development		466
	Mass	ARMY	RDTE/Other Defense-Exploratory Development		2,300
CONTRACTOR TOTAL	Georgia	NAVY	RDTE/Other Defense-Exploratory Development		100
GEORGIA INSTITUTE TECHNOLOGY	Georgia	ARMY	RDTE/Other Defense-Exploratory Development		3,724
GEORGIA TECH RESEARCH CORP		USAF	RDTE/Other Defense-Exploratory Development		3,858
					7,582
STATE TOTAL					1,115
GLOBAL ASSOCIATES LTD	Virginia	NAVY	RDTE/Other Defense-Exploratory Development		50
GMA INDUSTRIES INC	New Jersey	ARMY	RDTE/Other Defense-Exploratory Development		

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AD92 (CONTINUED)

GOODRICH B F COMPANY THE	California	USAF	RDTE/Other Defense-Exploratory Development	\$	50
GORHAM ADVANCED MATERIALS INST	Maine	ARMY	RDTE/Other Defense-Exploratory Development		50
GRADIENT LENS CORPORATION	New York	ARMY	RDTE/Other Defense-Exploratory Development		222
GRUMMAN AEROSPACE CORPORATION	New York	USAF	RDTE/Other Defense-Exploratory Development		195
GRUMMAN DATA SYSTEMS CORP	New York	ARMY	RDTE/Other Defense-Exploratory Development		96
		USAF	RDTE/Other Defense-Exploratory Development		197
	STATE TOTAL				293
GTE CORPORATION	Mass	NAVY	RDTE/Other Defense-Exploratory Development		296
GUMBS ASSOCIATES INC	New Jersey	ARMY	RDTE/Other Defense-Exploratory Development		294
HARRIS CORPORATION	Florida	NAVY	RDTE/Other Defense-Exploratory Development		225
		USAF	RDTE/Other Defense-Exploratory Development		4,230
	STATE TOTAL				4,455
CONTRACTOR TOTAL	New York	USAF	RDTE/Other Defense-Exploratory Development		170
					4,625
HARSCO CORPORATION	Penn	ARMY	RDTE/Other Defense-Exploratory Development		292
HARVARD UNIVERSITY	Mass	ARMY	RDTE/Other Defense-Exploratory Development		140
HAZELTINE CORPORATION	New York	ARMY	RDTE/Other Defense-Exploratory Development		53
HCC SCIENCE & TECHNOLOGY CO	New Jersey	USAF	RDTE/Other Defense-Exploratory Development		132
HERBERT J CORP	Florida	NAVY	RDTE/Other Defense-Exploratory Development		25
HERCULES INCORPORATED	Utah	ARMY	RDTE/Other Defense-Exploratory Development		80
	W Virginia	ARMY	RDTE/Other Defense-Exploratory Development		1,190
CONTRACTOR TOTAL					1,270
HIBBITT KARLSSON & SORENSEN	Rhode Isld	ARMY	RDTE/Other Defense-Exploratory Development		27
HILTON SYSTEMS INC	Alabama	ARMY	RDTE/Other Defense-Exploratory Development		2,266
HITTITE MICROWAVE CORPORATION	Mass	NAVY	RDTE/Other Defense-Exploratory Development		175

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AD92 (CONTINUED)

HNC INC	CONTRACTOR TOTAL		USAF	RDTE/Other Defense-Exploratory Development	\$ 52
		STATE TOTAL			227
HONEYWELL INC		California	ARMY	RDTE/Other Defense-Exploratory Development	50
		Arizona	ARMY	RDTE/Other Defense-Exploratory Development	791-
		Minnesota	ARMY	RDTE/Other Defense-Exploratory Development	1,344
			NAVY	RDTE/Other Defense-Exploratory Development	830
			USAF	RDTE/Other Defense-Exploratory Development	3,155
		STATE TOTAL			5,329
					4,538
HORIZONS TECHNOLOGY INC		California	ARMY	RDTE/Other Defense-Exploratory Development	3,472
HOUSTON AREA RESEARCH CENTER		Texas	ARMY	RDTE/Other Defense-Exploratory Development	597
HOWARD UNIVERSITY		D.C.	USAF	RDTE/Other Defense-Exploratory Development	141
HRB SYSTEMS INC		Penn	NAVY	RDTE/Other Defense-Exploratory Development	225
			USAF	RDTE/Other Defense-Exploratory Development	84
		STATE TOTAL			309
HUGHES AIRCRAFT COMPANY		Arizona	ARMY	RDTE/Other Defense-Exploratory Development	75,247
		California	ARMY	RDTE/Other Defense-Exploratory Development	17,520
			USAF	RDTE/Other Defense-Exploratory Development	2,838
		STATE TOTAL			20,358
					95,605
HUMAN RSRCS RES ORGANIZATION		Virginia	USAF	RDTE/Other Defense-Exploratory Development	282
HUTCHINSON F CANCER RESEARCH		Washington	USAF	RDTE/Other Defense-Exploratory Development	34-
HY TECH RESEARCH CORP		Virginia	ARMY	RDTE/Other Defense-Exploratory Development	440
HYDRO PRODUCTS INC		Virginia	ARMY	RDTE/Other Defense-Exploratory Development	2,222
I A P RESEARCH INC		Ohio	ARMY	RDTE/Other Defense-Exploratory Development	530
I I T RESEARCH INSTITUTE		Illinois	ARMY	RDTE/Other Defense-Exploratory Development	40

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AD92 (CONTINUED)					
	I KINETICS INC	Mass	ARMY	RDTE/Other Defense-Exploratory Development	\$ 62
	IBIS TECHNOLOGY CORP	Mass	ARMY	RDTE/Other Defense-Exploratory Development	50
	ICUCOM CORPORATION	New York	USAF	RDTE/Other Defense-Exploratory Development	50
	IGR ENTERPRISES INC	Ohio	ARMY	RDTE/Other Defense-Exploratory Development	201
	II VI INCORPORATED	Penn	ARMY	RDTE/Other Defense-Exploratory Development	47
	ILLINOIS INST OF TECHNOLOGY	Illinois	USAF	RDTE/Other Defense-Exploratory Development	50
	IMPERIAL ELECTRIC COMPANY THE	New Mexico	ARMY	RDTE/Other Defense-Exploratory Development	39
	IN MARC INC	N Dakota	ARMY	RDTE/Other Defense-Exploratory Development	49
	INCREMENTAL SYSTEMS CORP	Penn	ARMY	RDTE/Other Defense-Exploratory Development	82
	INERTIAL MOTORS CORP	Penn	ARMY	RDTE/Other Defense-Exploratory Development	48
	INFORMATION SCIENCE INC	California	ARMY	RDTE/Other Defense-Exploratory Development	100
	INFORMATION SYSTEMS LABS	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	246
	INFOSYSTEMS TECHNOLOGY INC	Maryland	USAF	RDTE/Other Defense-Exploratory Development	693
	INSIGHT & ASSOCIATES INC	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	117
	INSTITUTE FOREIGN PLCY ANALYS	Mass	ARMY	RDTE/Other Defense-Exploratory Development	230
	INSTRUMENTS INC	California	NAVY	RDTE/Other Defense-Exploratory Development	182
	INTEGRADED DEFENSE CONCEPTS	Illinois	NAVY	RDTE/Other Defense-Exploratory Development	46
	INTEGRATED SYSTEM ASSEMBLIES	Mass	ARMY	RDTE/Other Defense-Exploratory Development	50
	INTEL CORPORATION	Oregon	ARMY	RDTE/Other Defense-Exploratory Development	13,271
	INTELLIGENT AUTOMATION INC	Maryland	ARMY	RDTE/Other Defense-Exploratory Development	56
	INTELLIGENT MACHINE TECH CORP	Texas	USAF	RDTE/Other Defense-Exploratory Development	50
	INTERGRAPH CORPORATION	Alabama	ARMY	RDTE/Other Defense-Exploratory Development	29
	INTERMETRICS INC	Mass	USAF	RDTE/Other Defense-Exploratory Development	324
		Ohio	USAF	RDTE/Other Defense-Exploratory Development	326

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## PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

FISCAL YEAR 1991

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD92 (CONTINUED)					
	CONTRACTOR TOTAL				
	INTERNATIONAL BUS MCHS CORP				
		New York	USAF	RDTE/Other Defense-Exploratory Development	650
		Virginia	ARMY	RDTE/Other Defense-Exploratory Development	51
			USAF	RDTE/Other Defense-Exploratory Development	450
					4,559
	STATE TOTAL				5,009
					5,060
	CONTRACTOR TOTAL				
	INTERNATIONAL MICRO INDUSTS				
		New Jersey	ARMY	RDTE/Other Defense-Exploratory Development	50
		Texas	USAF	RDTE/Other Defense-Exploratory Development	1,404
		New York	ARMY	RDTE/Other Defense-Exploratory Development	99
		California	NAVY	RDTE/Other Defense-Exploratory Development	453
		California	USAF	RDTE/Other Defense-Exploratory Development	80
		New York	ARMY	RDTE/Other Defense-Exploratory Development	50
		California	USAF	RDTE/Other Defense-Exploratory Development	298
		Indiana	USAF	RDTE/Other Defense-Exploratory Development	52
		New Jersey	NAVY	RDTE/Other Defense-Exploratory Development	48
			USAF	RDTE/Other Defense-Exploratory Development	365
	STATE TOTAL				413
					500
	CONTRACTOR TOTAL				
	ITT GILFILLAN				
		Ohio	USAF	RDTE/Other Defense-Exploratory Development	1,263
		California	USAF	RDTE/Other Defense-Exploratory Development	275
		California	NAVY	RDTE/Other Defense-Exploratory Development	72
		California	ARMY	RDTE/Other Defense-Exploratory Development	685
		California	ARMY	RDTE/Other Defense-Exploratory Development	17,498
			NAVY	RDTE/Other Defense-Exploratory Development	80
			USAF	RDTE/Other Defense-Exploratory Development	35
	STATE TOTAL				17,613

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD92 (CONTINUED)					
	CONTRACTOR TOTAL				
	JOHNS HOPKINS UNIVERSITY				
		Colorado	ARMY	RDTE/Other Defense-Exploratory Development	149
		Ohio	USAF	RDTE/Other Defense-Exploratory Development	1,455
		Virginia	ARMY	RDTE/Other Defense-Exploratory Development	4,138
					23,355
		Maryland	NAVY	RDTE/Other Defense-Exploratory Development	305
			USAF	RDTE/Other Defense-Exploratory Development	50
					355
				STATE TOTAL	539
	JOHNSON CONTROLS INC				
		Nevada	ARMY	RDTE/Other Defense-Exploratory Development	51
	K C RESEARCH				
		Colorado	ARMY	RDTE/Other Defense-Exploratory Development	4,209
	KAMAN SCIENCES CORPORATION				
		California	ARMY	RDTE/Other Defense-Exploratory Development	13,543
		Colorado	ARMY	RDTE/Other Defense-Exploratory Development	250
		Mass	ARMY	RDTE/Other Defense-Exploratory Development	3,528
		New York	USAF	RDTE/Other Defense-Exploratory Development	21,530
					605
	KARAGOZIAN & CASE				
		California	ARMY	RDTE/Other Defense-Exploratory Development	125
	KESTREL INSTITUTE				
		California	USAF	RDTE/Other Defense-Exploratory Development	58
	KNIGHTRONIX INC				
		Minnesota	ARMY	RDTE/Other Defense-Exploratory Development	134
	KNOWLEDGE BASED SYSTEM				
		Texas	ARMY	RDTE/Other Defense-Exploratory Development	50
	KNOWLEDGE SYSTEMS CONCEPTS				
		New York	ARMY	RDTE/Other Defense-Exploratory Development	37
			USAF	RDTE/Other Defense-Exploratory Development	87
					50
				STATE TOTAL	541
	KONSAL RESEARCH ASSOCIATES				
		Ohio	ARMY	RDTE/Other Defense-Exploratory Development	3,737
	KOPIN CORPORATION				
		Mass	NAVY	RDTE/Other Defense-Exploratory Development	50
	KRUG INTERNATIONAL CORPORATION				
		Texas	USAF	RDTE/Other Defense-Exploratory Development	1,424
	KTECH CORPORATION				
		New Mexico	ARMY	RDTE/Other Defense-Exploratory Development	
	L N K CORPORATION				
		Maryland	ARMY	RDTE/Other Defense-Exploratory Development	

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AD92 (CONTINUED)					
	LAB ANIMALS BREEDERS & SVCS IN	S Carolina	ARMY	RDTE/Other Defense-Exploratory Development	\$ 304
	LACHEL PIEPENBURG & ASSOCIATES	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	796
	LAMBDA PHYSIK INC	Mass	ARMY	RDTE/Other Defense-Exploratory Development	94
	LANXIDE CORP	Delaware	NAVY	RDTE/Other Defense-Exploratory Development	835
	LASER POWER CORP	California	ARMY	RDTE/Other Defense-Exploratory Development	296
			USAF	RDTE/Other Defense-Exploratory Development	230
		STATE TOTAL			526
	LEAR ASTRONICS CORP	California	USAF	RDTE/Other Defense-Exploratory Development	92
	LECROY CORPORATION	New York	ARMY	RDTE/Other Defense-Exploratory Development	74
	LEHIGH UNIVERSITY	Penn	ARMY	RDTE/Other Defense-Exploratory Development	79
	LEWIS BROTHERS STAGES INC	Utah	USAF	RDTE/Other Defense-Exploratory Development	1,567
	LIGHTWAVE ELECTRONICS CORP	California	USAF	RDTE/Other Defense-Exploratory Development	500
	LINGUISTIC RESEARCH INSTITUTE	Colorado	USAF	RDTE/Other Defense-Exploratory Development	103
	LITTLE ARTHUR D INC	Mass	ARMY	RDTE/Other Defense-Exploratory Development	97
	LITTON INDUSTRIES INC	California	NAVY	RDTE/Other Defense-Exploratory Development	500
	LITTON SYSTEMS INC	California	USAF	RDTE/Other Defense-Exploratory Development	156
		Conn	ARMY	RDTE/Other Defense-Exploratory Development	143
			USAF	RDTE/Other Defense-Exploratory Development	50
		STATE TOTAL			193
		Mass	USAF	RDTE/Other Defense-Exploratory Development	95
		New Jersey	NAVY	RDTE/Other Defense-Exploratory Development	150
	CONTRACTOR TOTAL				594
	LOCKHEED AERONAUTICAL SYS CO	Georgia	USAF	RDTE/Other Defense-Exploratory Development	220
	LOCKHEED CORPORATION	California	ARMY	RDTE/Other Defense-Exploratory Development	986
		Georgia	USAF	RDTE/Other Defense-Exploratory Development	27

## PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

FISCAL YEAR 1991

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AD92 (CONTINUED)

	CONTRACTOR TOTAL				\$	
LOCKHEED MISSILES & SPACE CO						
		N.H.	USAF	RDTE/Other Defense-Exploratory Development		1,115
						2,128
		California	ARMY	RDTE/Other Defense-Exploratory Development		5,751
			NAVY	RDTE/Other Defense-Exploratory Development		124
			USAF	RDTE/Other Defense-Exploratory Development		537
	STATE TOTAL					6,412
		Nevada	ARMY	RDTE/Other Defense-Exploratory Development		9,128
	CONTRACTOR TOTAL					15,540
LOCKHEED SANDERS INC		N.H.	NAVY	RDTE/Other Defense-Exploratory Development		1,663
			USAF	RDTE/Other Defense-Exploratory Development		496
	STATE TOTAL					2,159
LOCUS INC		D.C.	NAVY	RDTE/Other Defense-Exploratory Development		133
		Penn	NAVY	RDTE/Other Defense-Exploratory Development		10,320
		Virginia	NAVY	RDTE/Other Defense-Exploratory Development		406
	CONTRACTOR TOTAL					10,859
LOGICON INC		California	ARMY	RDTE/Other Defense-Exploratory Development		4,752
			USAF	RDTE/Other Defense-Exploratory Development		178
	STATE TOTAL					4,930
		Ohio	USAF	RDTE/Other Defense-Exploratory Development		3,759
	CONTRACTOR TOTAL					8,689
LOGICS INC		Penn	ARMY	RDTE/Other Defense-Exploratory Development		405
		Arizona	ARMY	RDTE/Other Defense-Exploratory Development		78
		California	ARMY	RDTE/Other Defense-Exploratory Development		1,978
			NAVY	RDTE/Other Defense-Exploratory Development		15,621
			USAF	RDTE/Other Defense-Exploratory Development		508
	STATE TOTAL					18,107
		Ohio	ARMY	RDTE/Other Defense-Exploratory Development		375

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## PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

FISCAL YEAR 1991

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AD92 (CONTINUED)					
	CONTRACTOR TOTAL				\$
	LTV AEROSPACE & DEFENSE CO	Texas	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	18,560 428,908 453
			STATE TOTAL		429,361
	LTV CORPORATION	Texas	USAF	RDTE/Other Defense-Exploratory Development	78
	M R J INC	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	48
	M S P CORPORATION	Minnesota	ARMY	RDTE/Other Defense-Exploratory Development	83
	M T L SYSTEMS INC	Ohio	USAF	RDTE/Other Defense-Exploratory Development	944
	M/A COM INC	Mass	NAVY	RDTE/Other Defense-Exploratory Development	482
	MAC AULAY BROWN INC	Ohio	USAF	RDTE/Other Defense-Exploratory Development	177
	MACH I INC	Penn	ARMY	RDTE/Other Defense-Exploratory Development	100
	MAGNASCREEN CORPORATION	Penn	ARMY	RDTE/Other Defense-Exploratory Development	1,721
	MAGNAVOX GOVT & INDUSTRL ELCTR	Indiana	ARMY	RDTE/Other Defense-Exploratory Development	481
	MAK TECHNOLOGIES INC	Mass	ARMY	RDTE/Other Defense-Exploratory Development	51
	MALIBU RESEARCH ASSOCIATES	California	ARMY	RDTE/Other Defense-Exploratory Development	47
	MANAGEMENT COMM & CTRL	Virginia	NAVY	RDTE/Other Defense-Exploratory Development	155
	MANDEX INC	Virginia	NAVY	RDTE/Other Defense-Exploratory Development	102
	MANTECH INTERNATIONAL CORP	Ohio	USAF	RDTE/Other Defense-Exploratory Development	3,268
	MARK RESOURCES INC	California	ARMY	RDTE/Other Defense-Exploratory Development	740
	MARKO MATERIALS INC	Mass	ARMY	RDTE/Other Defense-Exploratory Development	246
	MARTIN MARIETTA CORPORATION	Colorado	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	1,790 258
			STATE TOTAL		2,048
		Florida	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	15,292 340

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
	AD92 (CONTINUED)				

CONTRACTOR TOTAL					STATE TOTAL	\$	15,632	
MARYLAND TECHNOLOGY					Maryland	USAF	RDTE/Other Defense-Exploratory Development	305
MASSACHSTTS INST OF TECHNOLOGY					Maryland	USAF	RDTE/Other Defense-Exploratory Development	17,985
					Mass	ARMY	RDTE/Other Defense-Exploratory Development	31
						NAVY	RDTE/Other Defense-Exploratory Development	5,930
						USAF	RDTE/Other Defense-Exploratory Development	301
							RDTE/Other Defense-Exploratory Development	1,648
					STATE TOTAL			7,879
MAXWELL LABORATORIES INC					California	ARMY	RDTE/Other Defense-Exploratory Development	30,588
						USAF	RDTE/Other Defense-Exploratory Development	55
					STATE TOTAL			30,643
MC DANIEL JOHN L ENTERPRISES					Alabama	ARMY	RDTE/Other Defense-Exploratory Development	245
MCDONNELL AIRCRAFT COMPANY					California	ARMY	RDTE/Other Defense-Exploratory Development	1,927
MCDONNELL DOUGLAS CORPORATION					Missouri	ARMY	RDTE/Other Defense-Exploratory Development	2,630
						USAF	RDTE/Other Defense-Exploratory Development	2,951
					STATE TOTAL			5,581
CONTRACTOR TOTAL					Texas	USAF	RDTE/Other Defense-Exploratory Development	291
MCDONNELL DOUGLAS MSL SYS CO								5,872
MCDONNELL DOUGLAS SPACE SYS CO					Missouri	USAF	RDTE/Other Defense-Exploratory Development	90
					California	ARMY	RDTE/Other Defense-Exploratory Development	910
						USAF	RDTE/Other Defense-Exploratory Development	50
					STATE TOTAL			960
MECHANICAL TECHNOLOGY INC					Florida	ARMY	RDTE/Other Defense-Exploratory Development	308-
MEDICAL LASER RESEARCH & DEVEL					New York	USAF	RDTE/Other Defense-Exploratory Development	652
					Mass	ARMY	RDTE/Other Defense-Exploratory Development	38
								76

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD92 (CONTINUED)					
	MEDOX ELECTRO OPTICS INC	Michigan	ARMY	RDTE/Other Defense-Exploratory Development	50
	MEI ASSOCIATES INC	Mass	USAF	RDTE/Other Defense-Exploratory Development	140
	MERIDIAN CORPORATION	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	1,753
	MERIT TECHNOLOGY INC	Texas	NAVY	RDTE/Other Defense-Exploratory Development	57
	MERIX CORPORATION	Mass	ARMY	RDTE/Other Defense-Exploratory Development	247
	MERRIFIELD LABORATORIES INC	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	83
	MESA INC	Virginia	NAVY	RDTE/Other Defense-Exploratory Development	380
	METATECH CORPORATION	California	ARMY	RDTE/Other Defense-Exploratory Development	1,372
	METCUT RESEARCH ASSOCIATES	Ohio	USAF	RDTE/Other Defense-Exploratory Development	713
	METRATEK INC	Virginia	NAVY	RDTE/Other Defense-Exploratory Development	48
	METRICOR	Washington	NAVY	RDTE/Other Defense-Exploratory Development	30
	METRON INC	D.C.	NAVY	RDTE/Other Defense-Exploratory Development	405
		Virginia	NAVY	RDTE/Other Defense-Exploratory Development	193
	CONTRACTOR TOTAL				598
	MIAMI VALLEY RESEARCH INST	Ohio	USAF	RDTE/Other Defense-Exploratory Development	2,620
	MICRO ANALYSIS AND DESIGN INC	Colorado	ARMY	RDTE/Other Defense-Exploratory Development	250
	MICROELECTRONICS	Texas	ARMY NAVY	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	616 95
	STATE TOTAL				711
	MICROTRONICS ASSOCIATES INC	Penn	ARMY	RDTE/Other Defense-Exploratory Development	50
	MICROWAVE ASSOCIATES INC	Mass	USAF	RDTE/Other Defense-Exploratory Development	150
	MIDWEST RESEARCH INSTITUTE	Missouri	ARMY	RDTE/Other Defense-Exploratory Development	126
	MIDWEST SYSTEMS RESEARCH INC	Ohio	USAF	RDTE/Other Defense-Exploratory Development	755
	MINNESOTA MINING & MFG CO	Minnesota	ARMY	RDTE/Other Defense-Exploratory Development	24,375

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## DEPARTMENT OF DEFENSE

## PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

FISCAL YEAR 1991

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD92 (CONTINUED)					
	MIRAGE SYSTEMS	California	ARMY	RDTE/Other Defense-Exploratory Development	336
	MISSION RESEARCH CORPORATION	California	ARMY	RDTE/Other Defense-Exploratory Development	9,508
		Colorado	ARMY	RDTE/Other Defense-Exploratory Development	654
		New Mexico	ARMY	RDTE/Other Defense-Exploratory Development	462
					10,624
	CONTRACTOR TOTAL				
	MODELL DEVELOPMENT CORP	Mass	ARMY	RDTE/Other Defense-Exploratory Development	242
	MOLECULAR TECH INC	Mass	ARMY	RDTE/Other Defense-Exploratory Development	51
	MOLTECH CORP	New York	ARMY	RDTE/Other Defense-Exploratory Development	49
	MOLZEN CORBIN & ASSOCIATES PA	New Mexico	ARMY	RDTE/Other Defense-Exploratory Development	607
	MORGAN RESEARCH CORPORATION	Alabama	ARMY	RDTE/Other Defense-Exploratory Development	95
	MORLOCK ENVIRONMENTAL	N.H.	ARMY	RDTE/Other Defense-Exploratory Development	47
	MSNW INC	California	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	364 40
		STATE TOTAL			404
	MULTISPEC CORPORATION	New Jersey	ARMY	RDTE/Other Defense-Exploratory Development	49
	NANOSTRUCTURES INC	California	ARMY	RDTE/Other Defense-Exploratory Development	50
	NATIONAL ACADEMY SCIENCES USA	D.C.	ARMY	RDTE/Other Defense-Exploratory Development	477
	NATIONAL SEC PLG ASSOC INC	Mass	ARMY	RDTE/Other Defense-Exploratory Development	649
	NETWORK SOLUTIONS INC	Virginia	USAF	RDTE/Other Defense-Exploratory Development	577
	NEW ENGLAND RESEARCH INC	Vermont	USAF	RDTE/Other Defense-Exploratory Development	35
	NEW MEXICO STATE OF	New Mexico	ARMY	RDTE/Other Defense-Exploratory Development	3,759
	NEW YORK UNIVERSITY	New York	USAF	RDTE/Other Defense-Exploratory Development	50
	NICHOLS RESEARCH CORPORATION	Alabama	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	10,830 148
		STATE TOTAL			10,978

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AD92 (CONTINUED)					
	CONTRACTOR TOTAL				\$
	NON LINEAR TECHNOLOGY INC	Michigan	USAF	RDTE/Other Defense-Exploratory Development	100
					11,078
	NORDEN SYSTEMS INC	Maryland	ARMY	RDTE/Other Defense-Exploratory Development	50
		Conn	USAF	RDTE/Other Defense-Exploratory Development	250
	NORTH AMERICAN GEOTECHNICAL CO	Texas	ARMY	RDTE/Other Defense-Exploratory Development	50
	NORTH CAROLINA A&T UNIV	N Carolina	ARMY	RDTE/Other Defense-Exploratory Development	50
			USAF	RDTE/Other Defense-Exploratory Development	188
	STATE TOTAL				238
	NORTH CAROLINA STATE UNIV	N Carolina	NAVY	RDTE/Other Defense-Exploratory Development	350
	NORTHROP CORPORATION	California	USAF	RDTE/Other Defense-Exploratory Development	1,438
		Illinois	USAF	RDTE/Other Defense-Exploratory Development	1,253
	CONTRACTOR TOTAL				2,691
	NORTON CO DIAMOND FILMS DIV	Mass	NAVY	RDTE/Other Defense-Exploratory Development	273
	NUMERICAL TECHNOLOGY INC	Michigan	ARMY	RDTE/Other Defense-Exploratory Development	59
	ODYSSEY CONTRACTING COMPANY	New York	USAF	RDTE/Other Defense-Exploratory Development	669
	ODYSSEY RESEARCH ASSOCIATES	New York	USAF	RDTE/Other Defense-Exploratory Development	538
	OHIO STATE UNIVERSITY	Ohio	USAF	RDTE/Other Defense-Exploratory Development	149
	OHIO STATE UNIVERSITY RESEARCH	Ohio	ARMY	RDTE/Other Defense-Exploratory Development	25
	OME TECHNOLOGY INC	California	ARMY	RDTE/Other Defense-Exploratory Development	49
	OMNIA RESEARCH CORP	California	USAF	RDTE/Other Defense-Exploratory Development	50
	OMNITEK INC	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	39
	ONEIDA RESOURCES INC	Ohio	USAF	RDTE/Other Defense-Exploratory Development	77
	OPERATIONAL TECHNOLOGIES CORP	Texas	USAF	RDTE/Other Defense-Exploratory Development	464
	OPHIR CORP	Colorado	ARMY	RDTE/Other Defense-Exploratory Development	48
	OPTICAL IMAGING SYSTEMS INC	Michigan	ARMY	RDTE/Other Defense-Exploratory Development	750

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
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AD92 (CONTINUED)

OPTICAL SHIELDS LIMITED	California	ARMY	RDTE/Other Defense-Exploratory Development	51
OPTICOMP CORPORATION	Nevada	USAF	RDTE/Other Defense-Exploratory Development	75
OPTO ELECTRIC	Maryland	ARMY	RDTE/Other Defense-Exploratory Development	48
OPTRON SYSTEMS INC	Mass	ARMY	RDTE/Other Defense-Exploratory Development	286
ORBITAL SCIENCES CORPORATION	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	14,052
ORINCON CORPORATION	California	ARMY	RDTE/Other Defense-Exploratory Development	49
ORTEL CORPORATION	California	USAF	RDTE/Other Defense-Exploratory Development	50
OWENS CORNING FIBERGLAS CORP	Ohio	NAVY	RDTE/Other Defense-Exploratory Development	600
OWOHALI INC	Alabama	ARMY	RDTE/Other Defense-Exploratory Development	85
PACER SYSTEMS INC	Mass	ARMY	RDTE/Other Defense-Exploratory Development	183
	Penn	NAVY	RDTE/Other Defense-Exploratory Development	1,011
CONTRACTOR TOTAL				1,194
PACIFIC SIERRA RESEARCH CORP	California	ARMY NAVY	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	3,707 900
STATE TOTAL				4,607
PALISADES INST FOR RES SVCS	New York	USAF	RDTE/Other Defense-Exploratory Development	340
PAR TECHNOLOGY CORPORATION	New York	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	36 2,099
STATE TOTAL				2,135
PARA FLITE INC	New Jersey	ARMY	RDTE/Other Defense-Exploratory Development	7,976
PARACOM	Illinois	NAVY	RDTE/Other Defense-Exploratory Development	70
PARK SCIENTIFIC INSTRUMENTS	California	ARMY	RDTE/Other Defense-Exploratory Development	50
PDA ENGINEERING	California	ARMY	RDTE/Other Defense-Exploratory Development	566
PEDERSEN RESEARCH INC	Mass	ARMY	RDTE/Other Defense-Exploratory Development	79
PEN RESEARCH INC	Florida	ARMY	RDTE/Other Defense-Exploratory Development	47

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AD92 (CONTINUED)

PENNSYLVANIA STATE UNIV INC	Penn	USAF	RDTE/Other Defense-Exploratory Development	\$	55
PERCEPTIONICS INC	California	ARMY	RDTE/Other Defense-Exploratory Development		36
PERKIN ELMER CORPORATION	Maryland	ARMY	RDTE/Other Defense-Exploratory Development		84
PHOTOGLASS	Illinois	USAF	RDTE/Other Defense-Exploratory Development		49
PHOTON TECHNOLOGY INTERNATIONAL	New Jersey	ARMY	RDTE/Other Defense-Exploratory Development		72
PHOTONICS RESEARCH INC	Colorado	USAF	RDTE/Other Defense-Exploratory Development		50
PHOTONICS SYSTEMS INC	Florida	ARMY	RDTE/Other Defense-Exploratory Development		91
	Ohio	ARMY	RDTE/Other Defense-Exploratory Development		1,847
CONTRACTOR TOTAL					1,938
PHYSICAL OPTICS CORPORATION	California	ARMY	RDTE/Other Defense-Exploratory Development		205
		NAVY	RDTE/Other Defense-Exploratory Development		40
		USAF	RDTE/Other Defense-Exploratory Development		243
STATE TOTAL					488
PHYSICAL RESEARCH INC	California	ARMY	RDTE/Other Defense-Exploratory Development		1,766
PHYSICAL SCIENCES INC	Mass	ARMY	RDTE/Other Defense-Exploratory Development		191
		NAVY	RDTE/Other Defense-Exploratory Development		175
STATE TOTAL					366
PHYSICON INC	Alabama	ARMY	RDTE/Other Defense-Exploratory Development		498
PHYSICS INTERNATIONAL COMPANY	California	ARMY	RDTE/Other Defense-Exploratory Development		10,613
		NAVY	RDTE/Other Defense-Exploratory Development		110
STATE TOTAL					10,723
PIERCE JOHN B FOUNDATION LAB	Conn	USAF	RDTE/Other Defense-Exploratory Development		550
PINNACLE RESEARCH INSTITUTE	California	ARMY	RDTE/Other Defense-Exploratory Development		1,100
PLANAR SYSTEMS INC	Oregon	ARMY	RDTE/Other Defense-Exploratory Development		249
PLANNING SYSTEMS INCORPORATED	D.C.	NAVY	RDTE/Other Defense-Exploratory Development		347
	Virginia	NAVY	RDTE/Other Defense-Exploratory Development		1,078

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## PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

FISCAL YEAR 1991

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AD92 (CONTINUED)

CONTRACTOR TOTAL					\$	1,425
POLYMICRO TECHNOLOGIES INC	Arizona	ARMY	RDTE/Other Defense-Exploratory Development		49	
POLYTECHNIC UNIV OF NEW YORK	New York	ARMY NAVY	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development		175 25	
STATE TOTAL					200	
POLYTRONIX INC	Texas	ARMY	RDTE/Other Defense-Exploratory Development		192	
POTOMAC PHOTONICS INC	Maryland	ARMY	RDTE/Other Defense-Exploratory Development		93	
PRC INC	Virginia	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development		2,236 702	
STATE TOTAL					2,938	
PRINCETON INSTRUMENTS INC	New Jersey	ARMY	RDTE/Other Defense-Exploratory Development		86	
PRINCETON RESOURCES INC	New Jersey	ARMY	RDTE/Other Defense-Exploratory Development		49	
PRISMROID OPTICAL CO	Minnesota	ARMY	RDTE/Other Defense-Exploratory Development		384	
PROCESSING RESEARCH INC	Virginia	NAVY	RDTE/Other Defense-Exploratory Development		50	
PROMETHEUS INC	Rhode Isl	ARMY	RDTE/Other Defense-Exploratory Development		328	
PULSE SCIENCES INC	California	ARMY	RDTE/Other Defense-Exploratory Development		100	
PYMATUNING GROUP INC	Virginia	ARMY	RDTE/Other Defense-Exploratory Development		198	
Q DOT INC	Colorado	ARMY	RDTE/Other Defense-Exploratory Development		50	
QUAD DESIGN TECH INC	California	ARMY NAVY	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development		124 90	
STATE TOTAL					214	
QUALCOMM INC	California	ARMY	RDTE/Other Defense-Exploratory Development		1,560	
QUANTEL INTERNATIONAL INC	California	ARMY	RDTE/Other Defense-Exploratory Development		64	
QUANTEX CORPORATION	Maryland	ARMY	RDTE/Other Defense-Exploratory Development		248	
QUANTIC INDUSTRIES INC	California	ARMY	RDTE/Other Defense-Exploratory Development		50	

## PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AD92 (CONTINUED)

QUANTUM MAGNETICS INC	California	ARMY	RDTE/Other Defense-Exploratory Development	\$	56
QUEST SYSTEMS INC	Conn	ARMY	RDTE/Other Defense-Exploratory Development		72
QUESTTECH INC	Ohio	USAF	RDTE/Other Defense-Exploratory Development		370
	Virginia	NAVY	RDTE/Other Defense-Exploratory Development		2,222
					2,592
R & D ASSOCIATES	California	ARMY	RDTE/Other Defense-Exploratory Development		13,219
	NAVY	RDTE/Other Defense-Exploratory Development			756
	STATE TOTAL				13,975
	Virginia	NAVY	RDTE/Other Defense-Exploratory Development		250
	GERMANY	ARMY	RDTE/Other Defense-Exploratory Development		1,729
					15,954
R G B ASSOCIATES INC	Mass	ARMY	RDTE/Other Defense-Exploratory Development		50
RACAL COMMUNICATIONS INC	Maryland	NAVY	RDTE/Other Defense-Exploratory Development		130
RADIX SYSTEMS INC	Maryland	USAF	RDTE/Other Defense-Exploratory Development		189
RADIX TECHNOLOGIES	California	ARMY	RDTE/Other Defense-Exploratory Development		47
RAPIDAN RESEARCH CORP	Maryland	ARMY	RDTE/Other Defense-Exploratory Development		50
RAYTHEON COMPANY	California	NAVY	RDTE/Other Defense-Exploratory Development		2,840
	Maryland	USAF	RDTE/Other Defense-Exploratory Development		88
	Mass	ARMY	RDTE/Other Defense-Exploratory Development		5,355
	NAVY	RDTE/Other Defense-Exploratory Development			240
	USAF	RDTE/Other Defense-Exploratory Development			3,109
	STATE TOTAL				8,704
	EGYPT	ARMY	RDTE/Other Defense-Exploratory Development		1,811
	GERMANY	ARMY	RDTE/Other Defense-Exploratory Development		34
	TAIWAN	ARMY	RDTE/Other Defense-Exploratory Development		47

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AD92 (CONTINUED)

CONTRACTOR TOTAL					\$	13,524
RAYTHEON SERVICE COMPANY	Mass	ARMY	RDTE/Other	Defense-Exploratory Development		3,818
	New Mexico	ARMY	RDTE/Other	Defense-Exploratory Development		3,300
	Ohio	USAF	RDTE/Other	Defense-Exploratory Development		360
CONTRACTOR TOTAL						7,478
RECOGNITION TECHNOLOGY INC	Mass	ARMY	RDTE/Other	Defense-Exploratory Development		50
RECON OPTICAL INC	Illinois	ARMY	RDTE/Other	Defense-Exploratory Development		41
RENSSELAER POLYTECHNIC INST	New York	ARMY	RDTE/Other	Defense-Exploratory Development		240
		NAVY	RDTE/Other	Defense-Exploratory Development		27
		USAF	RDTE/Other	Defense-Exploratory Development		119
STATE TOTAL						386
RESEARCH PLANNING INC	Virginia	ARMY	RDTE/Other	Defense-Exploratory Development		424
RESEARCH TRIANGLE INSTITUTE	N Carolina	ARMY	RDTE/Other	Defense-Exploratory Development		273
		NAVY	RDTE/Other	Defense-Exploratory Development		196
		USAF	RDTE/Other	Defense-Exploratory Development		125
STATE TOTAL						594
RESSLER ASSOCIATES INC	Maryland	ARMY	RDTE/Other	Defense-Exploratory Development		49
RIVERSIDE RESEARCH INSTITUTE	New York	ARMY	RDTE/Other	Defense-Exploratory Development		149
		NAVY	RDTE/Other	Defense-Exploratory Development		40
STATE TOTAL						189
ROBOTIC SYSTEMS	Maryland	USAF	RDTE/Other	Defense-Exploratory Development		250
ROCKET RESEARCH CO	Washington	ARMY	RDTE/Other	Defense-Exploratory Development		250
ROCKWELL INTERNATIONAL CORP	California	NAVY	RDTE/Other	Defense-Exploratory Development		555
		USAF	RDTE/Other	Defense-Exploratory Development		1,556
STATE TOTAL						2,111
	Georgia	ARMY	RDTE/Other	Defense-Exploratory Development		4,007
	Texas	NAVY	RDTE/Other	Defense-Exploratory Development		376

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
	CONTRACTOR TOTAL				
	ROHR INDUSTRIES INC	California	USAF	RDTE/Other Defense-Exploratory Development	6,494
	RONSON MANAGEMENT CORP	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	250
	ROTHE DEVELOPMENTS INC	Texas	USAF	RDTE/Other Defense-Exploratory Development	34
	RUPPRECHT & PATASHNICK CO INC	New York	ARMY	RDTE/Other Defense-Exploratory Development	1,194
	RUST COLLEGE	Miss	USAF	RDTE/Other Defense-Exploratory Development	131
	RUTGERS THE STATE UNIVERSITY	New Jersey	USAF	RDTE/Other Defense-Exploratory Development	50
	S C S TELECOM INC	New York	ARMY	RDTE/Other Defense-Exploratory Development	40
	S F A INC	D.C.	NAVY	RDTE/Other Defense-Exploratory Development	268
		Maryland	ARMY	RDTE/Other Defense-Exploratory Development	1,648
		NAVY	NAVY	RDTE/Other Defense-Exploratory Development	92
	STATE TOTAL				3,849
		Penn	NAVY	RDTE/Other Defense-Exploratory Development	3,941
	CONTRACTOR TOTAL				1,173
	S S G INC	Mass	ARMY	RDTE/Other Defense-Exploratory Development	6,762
	SAPHIKON INC	N.H.	USAF	RDTE/Other Defense-Exploratory Development	220
	SARCOS INC	Utah	ARMY	RDTE/Other Defense-Exploratory Development	50
	SCHAFFER W J ASSOCIATES INC	Mass	ARMY	RDTE/Other Defense-Exploratory Development	98
		NAVY	NAVY	RDTE/Other Defense-Exploratory Development	125
	STATE TOTAL				50
		Florida	ARMY	RDTE/Other Defense-Exploratory Development	175
	SCHWARTZ ELECTRO-OPTICS INC	Mass	ARMY	RDTE/Other Defense-Exploratory Development	50
		NAVY	NAVY	RDTE/Other Defense-Exploratory Development	98
	STATE TOTAL				225
	CONTRACTOR TOTAL				323
					373

AD92 (CONTINUED)

## PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

FISCAL YEAR 1991

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	DESCRIPTION	
AD92 (CONTINUED)					
	SCI TECH	Maryland	ARMY	RDTE/Other Defense-Exploratory Development	\$ 68
	SCIENCE & ENGINEERING ASSOC	Colorado	ARMY	RDTE/Other Defense-Exploratory Development	53
		New Mexico	ARMY	RDTE/Other Defense-Exploratory Development	721
	CONTRACTOR TOTAL				774
	SCIENCE & TECHNOLOGY ASSOC	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	232
	SCIENCE & TECHNOLOGY CORP	Virginia	ARMY NAVY	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	896 285
		STATE TOTAL			1,181
	SCIENCE APPLICATIONS INTL CORP	Alabama	ARMY	RDTE/Other Defense-Exploratory Development	1,239
		California	ARMY NAVY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	25,679 126 73
		STATE TOTAL			25,878
		D.C.	NAVY	RDTE/Other Defense-Exploratory Development	240
		Nevada	ARMY	RDTE/Other Defense-Exploratory Development	943
		New Mexico	ARMY	RDTE/Other Defense-Exploratory Development	500
		Ohio	USAF	RDTE/Other Defense-Exploratory Development	858
		Virginia	ARMY NAVY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	14,425 50 1,237
		STATE TOTAL			15,712
	CONTRACTOR TOTAL				45,370
	SCIENCE RESEARCH LABORATORY	Mass	ARMY	RDTE/Other Defense-Exploratory Development	98
	SCIENTIFIC COMPUTING ASSOC	Conn	ARMY	RDTE/Other Defense-Exploratory Development	312
	SCIENTIFIC RESEARCH ASSOC INC	Conn	ARMY NAVY	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	61 248
		STATE TOTAL			309
	SCP CONTROL INC	Minnesota	ARMY	RDTE/Other Defense-Exploratory Development	98

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R&D	CONTRACTOR NAME	ST/CONTRY	DEPT	R&D DESCRIPTION	\$
AD92 (CONTINUED)					
	SEARCH TECHNOLOGY INC	Georgia	USAF	RDTE/Other Defense-Exploratory Development	426
	SECURITY BUILDINGS INC	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	105
	SECURITY TECHNOLOGIES INTL	Virginia	NAVY	RDTE/Other Defense-Exploratory Development	210
	SEMIMAC INC	Arizona	ARMY	RDTE/Other Defense-Exploratory Development	50
	SENSIS CORPORATION	New York	USAF	RDTE/Other Defense-Exploratory Development	250
	SETS INC	Hawaii	ARMY	RDTE/Other Defense-Exploratory Development	49
	SHERMAN KARP CONSULTING	Maryland	USAF	RDTE/Other Defense-Exploratory Development	50
	SIGMATECH INC	Alabama	ARMY	RDTE/Other Defense-Exploratory Development	116
	SIGNAL CORP	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	225
	SIGNAL TECHNOLOGY CORPORATION	Arizona	NAVY	RDTE/Other Defense-Exploratory Development	172
	SIMULATION TECHNOLOGIES INC	Ohio	ARMY	RDTE/Other Defense-Exploratory Development	430
	SOCIETY OF AUTO ENGINEERS	Penn	USAF	RDTE/Other Defense-Exploratory Development	60
	SOFTWARE ARCHITECTURE & ENGRG	Virginia	NAVY	RDTE/Other Defense-Exploratory Development	1,399
	SOFTWARE OPTIONS INC	Mass	NAVY	RDTE/Other Defense-Exploratory Development	500
			USAF	RDTE/Other Defense-Exploratory Development	70
			STATE TOTAL		570
	SOFTWARE PRODUCTIVITY SOLUTIONS	Florida	USAF	RDTE/Other Defense-Exploratory Development	676
	SOL TELECOMMUNICATION SERVICE	Arizona	ARMY	RDTE/Other Defense-Exploratory Development	262
		Virginia	ARMY	RDTE/Other Defense-Exploratory Development	936
	CONTRACTOR TOTAL				1,198
	SONO TEK CORPORATION	New York	ARMY	RDTE/Other Defense-Exploratory Development	107
	SOUTHEASTN CTR ELECTR ENG ED	Florida	USAF	RDTE/Other Defense-Exploratory Development	404
		Ohio	USAF	RDTE/Other Defense-Exploratory Development	166
	CONTRACTOR TOTAL				570

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AD92 (CONTINUED)					
	SOUTHERN METHODIST UNIVERSITY	Texas	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	\$ 2,083 141
		STATE TOTAL			2,224
	SOUTHERN RESEARCH INSTITUTE	Alabama	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	150 173
		STATE TOTAL			323
	SOUTHERN RESEARCH TECHNOLOGIES	Alabama	ARMY	RDTE/Other Defense-Exploratory Development	150
	SOUTHERN UNIV COLLEGE	Louisiana	USAF	RDTE/Other Defense-Exploratory Development	39
	SOUTHWEST RESEARCH INSTITUTE	Texas	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	1,665 325
		STATE TOTAL			1,990
	SOUTHWEST SCIENCES INC	New Mexico	ARMY	RDTE/Other Defense-Exploratory Development	50
	SPACE COMPUTER CORP	N Carolina	NAVY	RDTE/Other Defense-Exploratory Development	92
	SPACE DATA CORPORATION	Arizona	ARMY	RDTE/Other Defense-Exploratory Development	72
	SPARTA INC	California	ARMY NAVY	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	437 50
		STATE TOTAL			487
	SPECTRA PHYSICS INC	California	ARMY	RDTE/Other Defense-Exploratory Development	527
	SPECTRA SYSTEMS INC	Ohio	ARMY	RDTE/Other Defense-Exploratory Development	256
	SPECTRUM ASSOCIATES INC	Conn	ARMY	RDTE/Other Defense-Exploratory Development	59
	SPECTRUM PHOTONICS	Texas	ARMY	RDTE/Other Defense-Exploratory Development	44
	SPIRE CORPORATION	Mass	ARMY	RDTE/Other Defense-Exploratory Development	776
	SQM TECHNOLOGY INC	California	ARMY	RDTE/Other Defense-Exploratory Development	61
	SRI INTERNATIONAL	California	ARMY NAVY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	4,249 358 3,003
		STATE TOTAL			7,610
		Mass	USAF	RDTE/Other Defense-Exploratory Development	77

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AD92 (CONTINUED)					
	CONTRACTOR TOTAL				
	SRS TECHNOLOGIES	New York	USAF	RDTE/Other Defense-Exploratory Development	\$ 420
	SSDS INC	Ohio	USAF	RDTE/Other Defense-Exploratory Development	70
					8,177
	STANFORD TELECOMMUNICATIONS	California	ARMY	RDTE/Other Defense-Exploratory Development	134
	STANFORD UNIVERSITY	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	42
		Virginia	USAF	RDTE/Other Defense-Exploratory Development	289
		California	NAVY	RDTE/Other Defense-Exploratory Development	36
		USAF	USAF	RDTE/Other Defense-Exploratory Development	260
	STATE TOTAL				296
	STRATEGIC ANALYSIS INC	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	50
	STRUCTURED SYS & SOFTWARE	California	ARMY	RDTE/Other Defense-Exploratory Development	50
	SUNBURST RECOVERY INC	Colorado	ARMY	RDTE/Other Defense-Exploratory Development	177
	SUNDSTRAND CORPORATION	California	ARMY	RDTE/Other Defense-Exploratory Development	600
		USAF	USAF	RDTE/Other Defense-Exploratory Development	223
	STATE TOTAL				823
	SUNDSTRAND DATA CONTROL INC	Washington	USAF	RDTE/Other Defense-Exploratory Development	317
	SUPERCONDUCTIVE COMPONENTS INC	Ohio	ARMY	RDTE/Other Defense-Exploratory Development	50
	SUPERCONDUCTIVE ELECTRONICS IN	California	NAVY	RDTE/Other Defense-Exploratory Development	380
	SUPERCONDUCTOR TECHNOLOGIES	California	NAVY	RDTE/Other Defense-Exploratory Development	225
	SUPERIOR VACUUM TECHNOLOGY	Minnesota	ARMY	RDTE/Other Defense-Exploratory Development	49
	SVERDRUP CORPORATION	Ohio	USAF	RDTE/Other Defense-Exploratory Development	100
	SW OHIO CNCL FOR HIGHER EDUC	Ohio	USAF	RDTE/Other Defense-Exploratory Development	359
	SWERLING MANASSE & SMITH INC	California	ARMY	RDTE/Other Defense-Exploratory Development	249
	SYMBIOTICS INC	Mass	ARMY	RDTE/Other Defense-Exploratory Development	199
	SYMETRIX CORPORATION	Colorado	ARMY	RDTE/Other Defense-Exploratory Development	297

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
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AD92 (CONTINUED)

SYNECTICS CORP	Virginia	ARMY	RDTE/Other	Defense-Exploratory Development	50
SYNERTECH ASSOCIATES INC	Virginia	NAVY	RDTE/Other	Defense-Exploratory Development	1,051
SYNERTECH INC	Virginia	NAVY	RDTE/Other	Defense-Exploratory Development	40
SYNLIZE INC	Mass	USAF	RDTE/Other	Defense-Exploratory Development	200
SYRACUSE RESEARCH CORP	New York	USAF	RDTE/Other	Defense-Exploratory Development	790
SYRACUSE UNIVERSITY	New York	USAF	RDTE/Other	Defense-Exploratory Development	586
SYSCON CORPORATION	D.C.	NAVY	RDTE/Other	Defense-Exploratory Development	5,615
SYSTEM DYNAMICS INTERNATIONAL	Florida	ARMY	RDTE/Other	Defense-Exploratory Development	4,986
SYSTEM PLANNING CORPORATION	D.C.	NAVY	RDTE/Other	Defense-Exploratory Development	210
	Virginia	ARMY	RDTE/Other	Defense-Exploratory Development	5,033
		NAVY	RDTE/Other	Defense-Exploratory Development	35
				STATE TOTAL	5,068
					5,278
CONTRACTOR TOTAL					
SYSTEMS & PROCESSES ENGRG CORP	Texas	ARMY	RDTE/Other	Defense-Exploratory Development	50
SYSTEMS & TECHNOLOGY RESEARCH	Virginia	ARMY	RDTE/Other	Defense-Exploratory Development	50
SYSTEMS CONTROL TECHNOLOGY	California	ARMY	RDTE/Other	Defense-Exploratory Development	50
SYSTEMS EXPLORATION INC	Ohio	USAF	RDTE/Other	Defense-Exploratory Development	135
SYSTEMS RES APPLICATIONS CORP	Virginia	USAF	RDTE/Other	Defense-Exploratory Development	287
SYSTEMS TECHNOLOGY INC	California	USAF	RDTE/Other	Defense-Exploratory Development	245
SYSTRAN CORP	Ohio	USAF	RDTE/Other	Defense-Exploratory Development	2,990
T S C INC	California	USAF	RDTE/Other	Defense-Exploratory Development	165
	D.C.	NAVY	RDTE/Other	Defense-Exploratory Development	50
					215
CONTRACTOR TOTAL					
TACAN CORPORATION	California	NAVY	RDTE/Other	Defense-Exploratory Development	200

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AD92 (CONTINUED)

TAU CORPORATION	California	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	\$	53 100
	STATE TOTAL				153
TAYLOR S R	Oklahoma	ARMY	RDTE/Other Defense-Exploratory Development		51
TDA RESEARCH INC	Colorado	ARMY	RDTE/Other Defense-Exploratory Development		54
	Georgia	ARMY	RDTE/Other Defense-Exploratory Development		48
	CONTRACTOR TOTAL				102
TEAM SCARAB INC	California	NAVY	RDTE/Other Defense-Exploratory Development		48
TECH REPS INCORPORATED	New Mexico	ARMY	RDTE/Other Defense-Exploratory Development		463
TECHNICAL DIRECTIONS INC	Michigan	ARMY	RDTE/Other Defense-Exploratory Development		230
TECHNICAL ENGRS SERVICES D	New Jersey	USAF	RDTE/Other Defense-Exploratory Development		350
TECHNICAL EQP MKTG & SLS	Maryland	ARMY	RDTE/Other Defense-Exploratory Development		30
TECHNICAL RESEARCH ASSOCIATES	California	ARMY	RDTE/Other Defense-Exploratory Development		250
TECHNICO SOUTHWEST INC	New Mexico	ARMY	RDTE/Other Defense-Exploratory Development		195
TECHNO SCIENCES INC	Maryland	NAVY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development		65 163
	STATE TOTAL				228
TECHNOLOGY DEVELOPMENT CORP	Alabama	ARMY	RDTE/Other Defense-Exploratory Development		98
TECHNOLOGY INTERNATIONAL CORP	Mass	ARMY	RDTE/Other Defense-Exploratory Development		39
TELECOMMUNICATION SCIENCE ASSOC	Texas	ARMY	RDTE/Other Defense-Exploratory Development		132
TELEDYNE INDUSTRIES INC	California	ARMY	RDTE/Other Defense-Exploratory Development		3,695
	Ohio	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development		1,237 259
	STATE TOTAL				1,496
	Texas	ARMY	RDTE/Other Defense-Exploratory Development		2,180



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AD92 (CONTINUED)

CONTRACTOR TOTAL				
TERMAN FRYDENLUND APPLIED TECH	Virginia	USAF	RDTE/Other Defense-Exploratory Development	\$ 177
TERRA TEK INC	California	ARMY	RDTE/Other Defense-Exploratory Development	7,548
TETRA CORPORATION	Utah	ARMY	RDTE/Other Defense-Exploratory Development	78
TEXAS A & M RESEARCH FDN	New Mexico	ARMY	RDTE/Other Defense-Exploratory Development	616
	Texas	ARMY	RDTE/Other Defense-Exploratory Development	258
		NAVY	RDTE/Other Defense-Exploratory Development	583
		USAF	RDTE/Other Defense-Exploratory Development	75
			RDTE/Other Defense-Exploratory Development	97
	STATE TOTAL			755
TEXAS INSTRUMENTS INC	Texas	ARMY	RDTE/Other Defense-Exploratory Development	6,903
		NAVY	RDTE/Other Defense-Exploratory Development	434
		USAF	RDTE/Other Defense-Exploratory Development	1,457
	STATE TOTAL			8,794
TEXAS TECH UNIVERSITY	Texas	ARMY	RDTE/Other Defense-Exploratory Development	844
THERMO ELCTRON TECHNOLOGIES CORP	California	ARMY	RDTE/Other Defense-Exploratory Development	285
THINKING MACHINES CORPORATION	Mass	ARMY	RDTE/Other Defense-Exploratory Development	3,000
		NAVY	RDTE/Other Defense-Exploratory Development	120
	STATE TOTAL			3,120
THIOKOL CORPORATION	Alabama	ARMY	RDTE/Other Defense-Exploratory Development	854
	Maryland	NAVY	RDTE/Other Defense-Exploratory Development	182
	CONTRACTOR TOTAL			1,036
TITAN SEVERE ENVIRONMENT SYS	California	ARMY	RDTE/Other Defense-Exploratory Development	300
TOP LEVEL INC	Mass	ARMY	RDTE/Other Defense-Exploratory Development	50
TOYON RESEARCH CORP	California	ARMY	RDTE/Other Defense-Exploratory Development	1,904
TRACOR AEROSPACE INC	California	NAVY	RDTE/Other Defense-Exploratory Development	75
	Texas	NAVY	RDTE/Other Defense-Exploratory Development	55

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AD92 (CONTINUED)

	CONTRACTOR TOTAL				\$	
	TRACOR APPLIED SCIENCES INC	California	NAVY	RDTE/Other Defense-Exploratory Development		415
		Texas	NAVY	RDTE/Other Defense-Exploratory Development		470
	CONTRACTOR TOTAL					545
	TRACOR INC	Texas	NAVY	RDTE/Other Defense-Exploratory Development		38
	TRANS SCIENCE CORP	California	NAVY	RDTE/Other Defense-Exploratory Development		365
	TRANSARC CORP	Penn	ARMY	RDTE/Other Defense-Exploratory Development		403
	TRANSDUCER RESEARCH INC	Illinois	ARMY	RDTE/Other Defense-Exploratory Development		235
	TRELLIS SOFTWARE AND CONTROLS	Michigan	ARMY	RDTE/Other Defense-Exploratory Development		58
	TRICOR SYSTEMS INC	Illinois	ARMY	RDTE/Other Defense-Exploratory Development		566
	TRIFID CORP	Missouri	ARMY	RDTE/Other Defense-Exploratory Development		100
	TRIQUINT SEMICONDUCTOR INC	Oregon	USAF	RDTE/Other Defense-Exploratory Development		50
	TRS CERAMICS INC	Penn	ARMY	RDTE/Other Defense-Exploratory Development		80
	TRUSTED INFORMATION SYSTEMS	Maryland	ARMY	RDTE/Other Defense-Exploratory Development		150
			USAF	RDTE/Other Defense-Exploratory Development		1,225
	STATE TOTAL					50
	TRW INC	California	ARMY	RDTE/Other Defense-Exploratory Development		2,000
			NAVY	RDTE/Other Defense-Exploratory Development		2,138
			USAF	RDTE/Other Defense-Exploratory Development		4,138
	STATE TOTAL					2,932
						70
						952
	CONTRACTOR TOTAL					3,954
	UK SDIPO MINISTRY OF DEFENCE	Ohio	USAF	RDTE/Other Defense-Exploratory Development		200
	ULTRAMET	UNITED KIN	ARMY	RDTE/Other Defense-Exploratory Development		4,154
		California	ARMY	RDTE/Other Defense-Exploratory Development		241
						246

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(AMOUNTS IN THOUSANDS)

CONTRACTOR NAME	ST/CONTRY	DEPT	R&D DESCRIPTION	
AD92 (CONTINUED)				
ULTRASYSTEMS DEFENSE & SPACE	California	USAF	RDTE/Other Defense-Exploratory Development	\$ 465
UNION CARBIDE CHEM & PLAS CO	New Jersey	ARMY	RDTE/Other Defense-Exploratory Development	49
UNISTRY ASSOCIATES	Penn	ARMY	RDTE/Other Defense-Exploratory Development	50
UNISYS CORPORATION	Ohio	USAF	RDTE/Other Defense-Exploratory Development	43
	Penn	NAVY	RDTE/Other Defense-Exploratory Development	617
CONTRACTOR TOTAL				660
UNISYS DEFENSE SYSTEMS INC	Virginia	NAVY	RDTE/Other Defense-Exploratory Development	80
UNITED APPLIED TECHN	Alabama	ARMY	RDTE/Other Defense-Exploratory Development	338
UNITED STATES DEPT OF ENERGY	California	NAVY	RDTE/Other Defense-Exploratory Development	100
	New Mexico	NAVY	RDTE/Other Defense-Exploratory Development	75
CONTRACTOR TOTAL				175
UNITED TECHNOLOGIES CORP	California	ARMY	RDTE/Other Defense-Exploratory Development	144
		USAF	RDTE/Other Defense-Exploratory Development	1,100
STATE TOTAL				1,244
	Conn	USAF	RDTE/Other Defense-Exploratory Development	1,559
	Florida	NAVY	RDTE/Other Defense-Exploratory Development	337
		USAF	RDTE/Other Defense-Exploratory Development	5,580
STATE TOTAL				5,917
				8,720
CONTRACTOR TOTAL				180
UNITED TECHNOLOGIES CORP.	California	ARMY	RDTE/Other Defense-Exploratory Development	180
UNIV OF CA INFORM	California	ARMY	RDTE/Other Defense-Exploratory Development	4,300
UNIVERSAL ANALYTICS INC	California	USAF	RDTE/Other Defense-Exploratory Development	246
UNIVERSAL ENERGY SYSTEMS INC	Ohio	ARMY	RDTE/Other Defense-Exploratory Development	49
		USAF	RDTE/Other Defense-Exploratory Development	3,634
STATE TOTAL				3,683

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AD92 (CONTINUED)					
	UNIVERSAL TECHNOLOGY CORP	Ohio	USAF	RDTE/Other Defense-Exploratory Development	\$ 1,555
	UNIVERSITY NC AT CHAPEL HL	N Carolina	NAVY	RDTE/Other Defense-Exploratory Development	40
			USAF	RDTE/Other Defense-Exploratory Development	115
		STATE TOTAL			155
	UNIVERSITY OF ALABAMA	Alabama	ARMY	RDTE/Other Defense-Exploratory Development	3,757
	UNIVERSITY OF ARIZONA	Arizona	ARMY	RDTE/Other Defense-Exploratory Development	110
			USAF	RDTE/Other Defense-Exploratory Development	145
		STATE TOTAL			255
	UNIVERSITY OF CALIFORNIA	California	ARMY	RDTE/Other Defense-Exploratory Development	259
			NAVY	RDTE/Other Defense-Exploratory Development	1,814
			USAF	RDTE/Other Defense-Exploratory Development	513
		STATE TOTAL			2,586
	UNIVERSITY OF CHICAGO THE	Illinois	USAF	RDTE/Other Defense-Exploratory Development	362
	UNIVERSITY OF COLORADO	Colorado	USAF	RDTE/Other Defense-Exploratory Development	40
	UNIVERSITY OF DAYTON INC	Arizona	USAF	RDTE/Other Defense-Exploratory Development	3,079
		Ohio	ARMY	RDTE/Other Defense-Exploratory Development	225
			USAF	RDTE/Other Defense-Exploratory Development	7,625
		STATE TOTAL			7,850
	CONTRACTOR TOTAL				10,929
	UNIVERSITY OF HAWAII	Hawaii	ARMY	RDTE/Other Defense-Exploratory Development	30
			NAVY	RDTE/Other Defense-Exploratory Development	1,345
		STATE TOTAL			1,375
	UNIVERSITY OF ILLINOIS	Illinois	NAVY	RDTE/Other Defense-Exploratory Development	114
			USAF	RDTE/Other Defense-Exploratory Development	235
		STATE TOTAL			349
	UNIVERSITY OF IOWA THE	Iowa	ARMY	RDTE/Other Defense-Exploratory Development	30
			USAF	RDTE/Other Defense-Exploratory Development	52
		STATE TOTAL			82
	UNIVERSITY OF KENTUCKY	Kentucky	USAF	RDTE/Other Defense-Exploratory Development	50

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	--R&D DESCRIPTION--	
AD92 (CONTINUED)					
	UNIVERSITY OF MARYLAND	Maryland	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	\$ 1,327 411
	UNIVERSITY OF MASSACHUSETTS	Mass	NAVY USAF	RDIE/Other Defense-Exploratory Development RDIE/Other Defense-Exploratory Development	1,738 50 330
	UNIVERSITY OF MICHIGAN	Michigan	USAF	RDTE/Other Defense-Exploratory Development	380
	UNIVERSITY OF SOUTHERN CALIF	California	ARMY NAVY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	123 75 306 3,257
	UNIVERSITY OF SOUTHERN MISSISS	Miss	NAVY	RDTE/Other Defense-Exploratory Development	3,638
	UNIVERSITY OF TEXAS SYSTEM	Texas	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	53 189 144
	UNIVERSITY OF TORONTO	CANADA	USAF	RDTE/Other Defense-Exploratory Development	333
	UNIVERSITY OF VIRGINIA	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	45
	UNIVERSITY OF WASHINGTON	Washington	USAF	RDTE/Other Defense-Exploratory Development	305
	UNIVERSITY OF WISCONSIN SYSTEM	Wisconsin	USAF	RDTE/Other Defense-Exploratory Development	498
	UNIVERSITY RES ENGINEERS ASSOC	Mass	ARMY	RDTE/Other Defense-Exploratory Development	57
	USER TECHNOLOGY ASSOCIATES	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	233
	UTAH STATE UNIVERSITY	Utah	ARMY	RDTE/Other Defense-Exploratory Development	1,696
	UTD INC	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	1,570
	VACTRONIC LAB EQUIPMENT INC	New York	ARMY	RDTE/Other Defense-Exploratory Development	978
	VARI L COMPANY INC	D.C.	NAVY	RDTE/Other Defense-Exploratory Development	49
	VARIAN ASSOCIATES INC	California	NAVY	RDTE/Other Defense-Exploratory Development	75 638

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(AMOUNTS IN THOUSANDS)

CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	USAF	RDTE/Other Defense-Exploratory Development	\$
AD92 (CONTINUED)						
CONTRACTOR TOTAL						
VECTOR MICRO	Virginia	NAVY	RDTE/Other Defense-Exploratory Development			35
VECTOR RESEARCH COMPANY INC	Maryland	NAVY	RDTE/Other Defense-Exploratory Development			50
VECTOR RESEARCH INC	Maryland	NAVY	RDTE/Other Defense-Exploratory Development			574
VERITAY TECHNOLOGY INC	New York	ARMY	RDTE/Other Defense-Exploratory Development			50
VIRGINIA PLYTHNIC INST/ST UNI	Virginia	NAVY	RDTE/Other Defense-Exploratory Development			348
VIRTUAL IMAGE LAB INCORP	Maryland	ARMY	RDTE/Other Defense-Exploratory Development			49
VISTA RESEARCH	California	NAVY	RDTE/Other Defense-Exploratory Development			43
VMS CONSULTING ENGINEERS	Oregon	ARMY	RDTE/Other Defense-Exploratory Development			126
WACKENHUT ADV TECH CORP	Virginia	ARMY	RDTE/Other Defense-Exploratory Development			113
WAGNER DANIEL H ASSOCIATES	Penn	ARMY NAVY	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development			276 48
STATE TOTAL						
WASHINGTON STATE UNIVERSITY	Washington	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development			324 316 58
STATE TOTAL						
WEIDLINGER ASSOCIATES INC	California	ARMY	RDTE/Other Defense-Exploratory Development			374
	New York	ARMY	RDTE/Other Defense-Exploratory Development			856
CONTRACTOR TOTAL						
WESTERN INSTRUMENT CORPORATION	California	NAVY	RDTE/Other Defense-Exploratory Development			959
WESTINGHOUSE ELECTRIC CORP	California	ARMY	RDTE/Other Defense-Exploratory Development			1,815
	Maryland	ARMY	RDTE/Other Defense-Exploratory Development			2,201
						2,697
						1,807

## PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	DESCRIPTION	
AD92 (CONTINUED)					
			NAVY	RDTE/Other Defense-Exploratory Development	\$ 75
			USAF	RDTE/Other Defense-Exploratory Development	4,244
		STATE TOTAL			6,126
		Penn	ARMY	RDTE/Other Defense-Exploratory Development	952
			USAF	RDTE/Other Defense-Exploratory Development	65
					79
		STATE TOTAL			1,096
	CONTRACTOR TOTAL				9,919
	WGA	D.C.	NAVY	RDTE/Other Defense-Exploratory Development	220
	WHITTAKER CORPORATION	California	ARMY	RDTE/Other Defense-Exploratory Development	49
	WILLIAMS INTERNATIONAL CORP	Michigan	ARMY	RDTE/Other Defense-Exploratory Development	1,234
			USAF	RDTE/Other Defense-Exploratory Development	793
		STATE TOTAL			2,027
	WIZDOM SYSTEMS INC	Illinois	ARMY	RDTE/Other Defense-Exploratory Development	50
	WOODS HOLE OCNRPIC INSTUTE	Mass	NAVY	RDTE/Other Defense-Exploratory Development	1,205
	WOODWARD-CLYDE CONSULTANTS	California	USAF	RDTE/Other Defense-Exploratory Development	75
	WORCESTER PLYTECHNIC INSTITUTE	Mass	USAF	RDTE/Other Defense-Exploratory Development	70
	WRIGHT STATE UNIVERSITY	Ohio	USAF	RDTE/Other Defense-Exploratory Development	195
	XACTON CORPORATION	Arizona	ARMY	RDTE/Other Defense-Exploratory Development	286
	XEMET INC	Washington	ARMY	RDTE/Other Defense-Exploratory Development	103
	XEROX CORP	California	ARMY	RDTE/Other Defense-Exploratory Development	1,791
		Mass	USAF	RDTE/Other Defense-Exploratory Development	180
					1,971
	CONTRACTOR TOTAL				880
	ZEXTRON INC	California	ARMY	RDTE/Other Defense-Exploratory Development	200
	ZYBRON INC	Ohio	USAF	RDTE/Other Defense-Exploratory Development	
	R&D TOTAL				1,530,052

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/ENTRY	DEPT	R&D DESCRIPTION	
AD93	A A I CORPORATION	Maryland	ARMY	RDTE/Other Defense-Advanced Development	\$ 277
	A T S S INC	California	USAF	RDTE/Other Defense-Advanced Development	49
	ACUREX CORPORATION	Ohio	USAF	RDTE/Other Defense-Advanced Development	358
	ADVANCED COMMUNICATIONS INC	Maryland	ARMY	RDTE/Other Defense-Advanced Development	89
	ADVANCED DECISION SYSTEMS	California	ARMY	RDTE/Other Defense-Advanced Development	1,883
		Virginia	USAF	RDTE/Other Defense-Advanced Development	151
	CONTRACTOR TOTAL				2,034
	ADVANCED RESOURCE TECHNOLOGIES	Maryland	ARMY	RDTE/Other Defense-Advanced Development	275
	ADVANCED TECHNOLOGY SYSTEMS	Virginia	NAVY	RDTE/Other Defense-Advanced Development	852
	AEDAR CORPORATION	Maryland	ARMY	RDTE/Other Defense-Advanced Development	175
	AEROFLEX SYSTEMS	Virginia	NAVY	RDTE/Other Defense-Advanced Development	1,174
	AEROJET	California	USAF	RDTE/Other Defense-Advanced Development	195
	AERONAUTICAL TECHNOLOGY	California	USAF	RDTE/Other Defense-Advanced Development	67
	AEROTHERM CORPORATION	Ohio	USAF	RDTE/Other Defense-Advanced Development	978
	AIRST CORP	Virginia	ARMY	RDTE/Other Defense-Advanced Development	186
	ALABAMA A & M UNIVERSITY	Alabama	USAF	RDTE/Other Defense-Advanced Development	241
	ALLIANT TECHSYSTEMS INC	Minnesota	ARMY	RDTE/Other Defense-Advanced Development	1,048
	ALLIED SIGNAL INC	New Jersey	NAVY	RDTE/Other Defense-Advanced Development	150
	AMBER ENGINEERING INC	California	ARMY	RDTE/Other Defense-Advanced Development	1,210
	AMERASIA TECHNOLOGY INC	California	USAF	RDTE/Other Defense-Advanced Development	183
	AMERICAN FOUNDATION	Maryland	NAVY	RDTE/Other Defense-Advanced Development	306
	AMERICAN OPTICAL CORPORATION	Mass	NAVY	RDTE/Other Defense-Advanced Development	1,529
	AMERICAN TELEPHONE & TELG CO	N Carolina	NAVY	RDTE/Other Defense-Advanced Development	7,527
	AMERINEX ARTFL INTELLIGENCE	Mass	ARMY	RDTE/Other Defense-Advanced Development	3,921
	ANALYTIC SCIENCE CORP THE	Mass	ARMY	RDTE/Other Defense-Advanced Development	31,505
			USAF	RDTE/Other Defense-Advanced Development	2,716

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## PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	DESCRIPTION	
AD93 (CONTINUED)					
		STATE TOTAL			\$
	ANALYTIC SERVICES INC	Virginia	ARMY	RDTE/Other Defense-Advanced Development	34,221
	ANTHROPOLOGY RESEARCH PROJECT	Ohio	USAF	RDTE/Other Defense-Advanced Development	14,627
	ARES CORPORATION	Virginia	ARMY	RDTE/Other Defense-Advanced Development	280
	ARETE ASSOCIATES	California	NAVY	RDTE/Other Defense-Advanced Development	450
	ARTHUR D LITTLE	Mass	NAVY	RDTE/Other Defense-Advanced Development	340
	ASTROSYSTEMS INC	Delaware	USAF	RDTE/Other Defense-Advanced Development	245
	ATLANTIC RESEARCH CORPORATION	California	USAF	RDTE/Other Defense-Advanced Development	200
		Maryland	NAVY	RDTE/Other Defense-Advanced Development	778
		New York	USAF	RDTE/Other Defense-Advanced Development	1,007
					626
					2,411
	CONTRACTOR TOTAL				139
	AURA SYSTEMS	California	NAVY	RDTE/Other Defense-Advanced Development	1,566
	AUTOMATION RES SYSTEMS LTD	Virginia	ARMY	RDTE/Other Defense-Advanced Development	250-
	AVCO CORPORATION	Conn	USAF	RDTE/Other Defense-Advanced Development	162
		Mass	USAF	RDTE/Other Defense-Advanced Development	88-
	CONTRACTOR TOTAL				659
	AVCO RESEARCH LABORATORY INC	Hawaii	USAF	RDTE/Other Defense-Advanced Development	1,383
	B K DYNAMICS INC	Maryland	ARMY	RDTE/Other Defense-Advanced Development	76
	BAAS CORPORATION	Alabama	ARMY	RDTE/Other Defense-Advanced Development	14,000
	BABCOCK & WILCOX COMPANY THE	Virginia	ARMY	RDTE/Other Defense-Advanced Development	931
	BALL CORPORATION	Colorado	ARMY USAF	RDTE/Other Defense-Advanced Development	3,535
		STATE TOTAL			4,466
	BALLENA SYSTEMS CORPORATION	California	NAVY	RDTE/Other Defense-Advanced Development	408

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CONTRY	DEPT	R&D DESCRIPTION	
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AD93 (CONTINUED)

BARRON ASSOCIATES INC	Virginia	NAVY	RDTE/Other Defense-Advanced Development	\$	100
BASE TEN SYSTEMS INC	New Jersey	ARMY	RDTE/Other Defense-Advanced Development		97
BATTELLE MEMORIAL INSTITUTE	Ohio	ARMY USAF	RDTE/Other Defense-Advanced Development RDTE/Other Defense-Advanced Development		7,345 96
	STATE TOTAL				7,441
BDM INTERNATIONAL INC	Florida	USAF	RDTE/Other Defense-Advanced Development		14,300
	Virginia	ARMY NAVY USAF	RDTE/Other Defense-Advanced Development RDTE/Other Defense-Advanced Development RDTE/Other Defense-Advanced Development		22,190 74 221
	STATE TOTAL				22,485
CONTRACTOR TOTAL					36,785
BERKELEY RESEARCH ASSOCIATES	California	NAVY	RDTE/Other Defense-Advanced Development		58
BLACK & DECKER CORPORATION	Nebraska	USAF	RDTE/Other Defense-Advanced Development		156
BLIME INC	Virginia	ARMY	RDTE/Other Defense-Advanced Development		120
BOEING AEROSPACE & ELECTRONICS	Washington	ARMY USAF	RDTE/Other Defense-Advanced Development RDTE/Other Defense-Advanced Development		3,103 1,574
	STATE TOTAL				4,677
BOEING COMPANY THE	D.C.	NAVY	RDTE/Other Defense-Advanced Development		96
	Washington	ARMY NAVY USAF	RDTE/Other Defense-Advanced Development RDTE/Other Defense-Advanced Development RDTE/Other Defense-Advanced Development		57 101 3,713
	STATE TOTAL				3,871
CONTRACTOR TOTAL					3,967
BOEING COMPUTER SUPPORT SVCS	Washington	USAF	RDTE/Other Defense-Advanced Development		128
BOLT BERANEK & NEWMAN INC	California	USAF	RDTE/Other Defense-Advanced Development		1,010
	Mass	USAF	RDTE/Other Defense-Advanced Development		2,680
	Virginia	NAVY	RDTE/Other Defense-Advanced Development		571

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AD93 (CONTINUED)

CONTRACTOR TOTAL					\$	
BOOZ ALLEN & HAMILTON INC	Maryland	ARMY USAF	RDTE/Other Defense-Advanced Development RDTE/Other Defense-Advanced Development			4,261 6,078 183
BOSTON UNIVERSITY	Mass	NAVY	RDTE/Other Defense-Advanced Development			6,261
BROGAN ASSOCIATES INC	Maryland	ARMY	RDTE/Other Defense-Advanced Development			3,300
BRUNSWICK CORPORATION	Virginia	ARMY	RDTE/Other Defense-Advanced Development			2,983
C & M TECHNOLOGY INC	Conn	NAVY	RDTE/Other Defense-Advanced Development			686
CALSPAN CORPORATION	New York	USAF	RDTE/Other Defense-Advanced Development			280
	Ohio	USAF	RDTE/Other Defense-Advanced Development			414
CONTRACTOR TOTAL						1,984
CANADIAN COMMERCIAL CORP	CANADA	NAVY	RDTE/Other Defense-Advanced Development			2,398
CARNEGIE MELLON UNIVERSITY	Penn	NAVY USAF	RDTE/Other Defense-Advanced Development RDTE/Other Defense-Advanced Development			100 115 717
CATERPILLAR INC	Illinois	ARMY	RDTE/Other Defense-Advanced Development			832
CENTURY COMPUTING INC	Maryland	ARMY	RDTE/Other Defense-Advanced Development			82
CERAMPHYSICS INC	Ohio	USAF	RDTE/Other Defense-Advanced Development			1,253
CLARK ATLANTA UNIVERSITY	Georgia	ARMY	RDTE/Other Defense-Advanced Development			30
CLARKSON ENGINEERING INC	Texas	USAF	RDTE/Other Defense-Advanced Development			60
CLEVELAND CRYSTALS INC	Ohio	NAVY	RDTE/Other Defense-Advanced Development			200
COLORADO SCHOOL OF MINES	Colorado	ARMY	RDTE/Other Defense-Advanced Development			60
COLSA INC	Alabama	ARMY	RDTE/Other Defense-Advanced Development			94
COMPREHENSIVE TECHNOLOGIES INTL	Virginia	ARMY	RDTE/Other Defense-Advanced Development			1,147
CONTROL DATA CORPORATION	Minnesota	USAF	RDTE/Other Defense-Advanced Development			10,579
						186

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD93 (CONTINUED)					
	CORNING INC	New York	USAF	RDTE/Other Defense-Advanced Development	89
	CORTANA CORPORATION	Virginia	ARMY	RDTE/Other Defense-Advanced Development	2,724
	CRYSTALLUME	California	USAF	RDTE/Other Defense-Advanced Development	100
	CSA ENGINEERING INC	California	USAF	RDTE/Other Defense-Advanced Development	1,488
	DAMES & MOORE	Maryland	ARMY	RDTE/Other Defense-Advanced Development	3,658
	DAUBIN SYSTEMS CORPORATION	Florida	NAVY	RDTE/Other Defense-Advanced Development	60
	DCS CORPORATION	Virginia	NAVY	RDTE/Other Defense-Advanced Development	1,009
	DECISION SCIENCE APPLICATIONS	Virginia	USAF	RDTE/Other Defense-Advanced Development	1,466
	DEFENSE RESEARCH TECHNOLOGIES	Maryland	ARMY	RDTE/Other Defense-Advanced Development	934
	DELTA DATA SYSTEMS CORPORATION	Miss	NAVY	RDTE/Other Defense-Advanced Development	93
	DIGITAL AUDIO CORPORATION	N Carolina	ARMY	RDTE/Other Defense-Advanced Development	65
	DIGITAL EQUIPMENT CORPORATION	Maryland	NAVY	RDTE/Other Defense-Advanced Development	121
	DIGITAL RADIO CORP	California	ARMY	RDTE/Other Defense-Advanced Development	1,935
	DORNIER GMBH	GERMANY	ARMY	RDTE/Other Defense-Advanced Development	575
	DRAPER CHARLES STARK LAB INC	Mass	ARMY USAF	RDTE/Other Defense-Advanced Development RDTE/Other Defense-Advanced Development	1,361 1,750
			STATE TOTAL		3,111
	DREXEL UNIVERSITY	Penn	NAVY	RDTE/Other Defense-Advanced Development	56
	DUPONT AEROSPACE CO INC	California	USAF	RDTE/Other Defense-Advanced Development	476
	DYNAMIC CONTROLS INC	Ohio	USAF	RDTE/Other Defense-Advanced Development	390
	DYNAMICS RESEARCH CORPORATION	Virginia	ARMY	RDTE/Other Defense-Advanced Development	638
	DYNACORP	Ohio	USAF	RDTE/Other Defense-Advanced Development	475
	DYNETICS INC	Alabama	ARMY	RDTE/Other Defense-Advanced Development	400
	E SYSTEMS INC	Texas	USAF	RDTE/Other Defense-Advanced Development	58

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AD93 (CONTINUED)

EAGLE PICHER INDUSTRIES INC	California	USAF	RDTE/Other Defense-Advanced Development	\$	53
	Missouri	USAF	RDTE/Other Defense-Advanced Development		250
CONTRACTOR TOTAL					303
EASTERN LABORATORIES INC	Mass	ARMY	RDTE/Other Defense-Advanced Development		50
EASTMAN KODAK COMPANY	New York	USAF	RDTE/Other Defense-Advanced Development		477
ELDEC CORPORATION	Washington	USAF	RDTE/Other Defense-Advanced Development		203
ELECTRONIC DECISIONS INC	Illinois	USAF	RDTE/Other Defense-Advanced Development		185
ELECTRONICS DEVELOPMENT CORP	Maryland	ARMY	RDTE/Other Defense-Advanced Development		1,057
ENERGY SCIENCE LABORATORIES	California	USAF	RDTE/Other Defense-Advanced Development		190
ENGINE CORP OF AMERICA	California	ARMY	RDTE/Other Defense-Advanced Development		94
ENGINEERING & ECONOMICS RES	Florida	NAVY	RDTE/Other Defense-Advanced Development		66
ENVIRONMENTAL RES INST OF MICH	Michigan	NAVY	RDTE/Other Defense-Advanced Development		431
ENVIRONMENTAL TECHNOLOGIES GRP	Maryland	ARMY	RDTE/Other Defense-Advanced Development		927
EPOCH ENGINEERING INC	Maryland	NAVY	RDTE/Other Defense-Advanced Development		1,042
EXECUTIVE RESOURCE ASSOCIATES	Virginia	ARMY	RDTE/Other Defense-Advanced Development		398
FAIRCHILD SPACE & DEFENSE CORP	Maryland	ARMY	RDTE/Other Defense-Advanced Development		166
FALCON COMMUNICATIONS CORP	Colorado	USAF	RDTE/Other Defense-Advanced Development		768
FMC CORPORATION	California	ARMY	RDTE/Other Defense-Advanced Development		2,499
FOSTER MILLER INC	Mass	ARMY	RDTE/Other Defense-Advanced Development		51
		NAVY	RDTE/Other Defense-Advanced Development		466
		USAF	RDTE/Other Defense-Advanced Development		100
STATE TOTAL					617
G & F COMPANY	California	ARMY	RDTE/Other Defense-Advanced Development		5,172
GALAXY MICROSYSTEMS INC	California	ARMY	RDTE/Other Defense-Advanced Development		57
GEMINI COMPUTERS INCORPORATED	California	USAF	RDTE/Other Defense-Advanced Development		143

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AD93 (CONTINUED)

GENERAL APPLIED SCIENCE	New York	USAF	RDTE/Other	Defense-Advanced Development	\$ 250
GENERAL ATOMICS	California	USAF	RDTE/Other	Defense-Advanced Development	549
GENERAL DYNAMICS CORPORATION	California	ARMY	RDTE/Other	Defense-Advanced Development	2,651
		USAF	RDTE/Other	Defense-Advanced Development	4,278
	STATE TOTAL				6,929
	Conn	ARMY	RDTE/Other	Defense-Advanced Development	181
	Texas	USAF	RDTE/Other	Defense-Advanced Development	3,703
	Virginia	ARMY	RDTE/Other	Defense-Advanced Development	470
CONTRACTOR TOTAL					11,283
GENERAL ELECTRIC COMPANY	Arizona	USAF	RDTE/Other	Defense-Advanced Development	1,408
	New Jersey	ARMY	RDTE/Other	Defense-Advanced Development	5,000
		USAF	RDTE/Other	Defense-Advanced Development	3,218
	STATE TOTAL				8,218
	New York	USAF	RDTE/Other	Defense-Advanced Development	1,688
	Ohio	USAF	RDTE/Other	Defense-Advanced Development	1,455
	Penn	ARMY	RDTE/Other	Defense-Advanced Development	68,025
		USAF	RDTE/Other	Defense-Advanced Development	1,353
	STATE TOTAL				69,378
CONTRACTOR TOTAL					82,147
GENERAL MOTORS CORPORATION	Indiana	USAF	RDTE/Other	Defense-Advanced Development	294
GENERAL RESEARCH CORPORATION	California	ARMY	RDTE/Other	Defense-Advanced Development	1,300
		USAF	RDTE/Other	Defense-Advanced Development	103
	STATE TOTAL				1,403
GEO CENTERS INC	D.C.	NAVY	RDTE/Other	Defense-Advanced Development	49
	Maryland	ARMY	RDTE/Other	Defense-Advanced Development	150
CONTRACTOR TOTAL					199

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AD93 (CONTINUED)					
	GEORGE MASON UNIVERSITY	Virginia	ARMY	RDTE/Other Defense-Advanced Development	\$ 40
	GLEASON RESEARCH ASSOC INC	Maryland	ARMY	RDTE/Other Defense-Advanced Development	97
	GRUMMAN AEROSPACE CORPORATION	New York	ARMY	RDTE/Other Defense-Advanced Development	12,551
			USAF	RDTE/Other Defense-Advanced Development	345
	STATE TOTAL				12,896
	GRUMMAN DATA SYSTEMS CORP	New York	USAF	RDTE/Other Defense-Advanced Development	144
	GTE GOVERNMENT SYSTEMS CORP	California	USAF	RDTE/Other Defense-Advanced Development	550
		Maryland	USAF	RDTE/Other Defense-Advanced Development	740
	CONTRACTOR TOTAL				1,290
	HARRIS CORPORATION	Florida	USAF	RDTE/Other Defense-Advanced Development	1,181
	HARRIS GROUP THE INC	Virginia	ARMY	RDTE/Other Defense-Advanced Development	1,500
	HAZELTINE CORPORATION	New York	USAF	RDTE/Other Defense-Advanced Development	4,342
	HERNANDEZ ENGINEERING INC	Texas	ARMY	RDTE/Other Defense-Advanced Development	235
	HIGH TECH INC	Miss	NAVY	RDTE/Other Defense-Advanced Development	103
	HOECHST CELANESE CORPORATION	New Jersey	USAF	RDTE/Other Defense-Advanced Development	41
	HONEYWELL INC	Florida	USAF	RDTE/Other Defense-Advanced Development	43
		Minnesota	ARMY	RDTE/Other Defense-Advanced Development	1,537
			NAVY	RDTE/Other Defense-Advanced Development	135
			USAF	RDTE/Other Defense-Advanced Development	960
	STATE TOTAL				2,632
	CONTRACTOR TOTAL				2,675
	HUGHES AIRCRAFT COMPANY	California	ARMY	RDTE/Other Defense-Advanced Development	661
			USAF	RDTE/Other Defense-Advanced Development	4,009
	STATE TOTAL				4,670
	HUGHES ASSOCIATES INC	D.C.	NAVY	RDTE/Other Defense-Advanced Development	289
	HUGHES DANBURY OPTICAL SYSTEMS	Conn	USAF	RDTE/Other Defense-Advanced Development	299
	HYPRES INC	New York	NAVY	RDTE/Other Defense-Advanced Development	673

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD93 (CONTINUED)					
	I I T RESEARCH INSTITUTE	Illinois	ARMY	RDTE/Other Defense-Advanced Development	1,047
			USAF	RDTE/Other Defense-Advanced Development	186
	STATE TOTAL				1,233
	CONTRACTOR TOTAL				31
	I NET INC	Ohio	USAF	RDTE/Other Defense-Advanced Development	1,264
	IMO INDUSTRIES INC	Maryland	ARMY	RDTE/Other Defense-Advanced Development	650
		California	ARMY	RDTE/Other Defense-Advanced Development	295
	INFORMATION SYSTEMS NTRKS CORP	Maryland	ARMY	RDTE/Other Defense-Advanced Development	160
		Ohio	USAF	RDTE/Other Defense-Advanced Development	91
	CONTRACTOR TOTAL				251
	INTELLIGENT TEXT PROCESSING	California	ARMY	RDTE/Other Defense-Advanced Development	51
	INTERMETRICS INC	Mass	USAF	RDTE/Other Defense-Advanced Development	1,678
		Ohio	USAF	RDTE/Other Defense-Advanced Development	56
		Penn	NAVY	RDTE/Other Defense-Advanced Development	536
	CONTRACTOR TOTAL				2,270
	INTERNATIONAL SOFTWARE SYSTEMS	Texas	USAF	RDTE/Other Defense-Advanced Development	388
	IRVINE SENSORS CORPORATION	California	NAVY	RDTE/Other Defense-Advanced Development	69
	ISRAEL AIRCRAFT INDUSTRIES LTD	ISRAEL	ARMY	RDTE/Other Defense-Advanced Development	7,520
	ISREALI MINISTRY OF DEFENSE	ISRAEL	ARMY	RDTE/Other Defense-Advanced Development	1,165
	JAMIESON SCIENCE & ENGINEERING	Maryland	ARMY	RDTE/Other Defense-Advanced Development	2,788
	JAYCOR	California	NAVY	RDTE/Other Defense-Advanced Development	50
		Virginia	ARMY	RDTE/Other Defense-Advanced Development	60,340
	CONTRACTOR TOTAL				60,390
	JOHNS HOPKINS UNIVERSITY	Maryland	ARMY	RDTE/Other Defense-Advanced Development	96,431

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD93 (CONTINUED)					
	KAISER OPTICAL SYSTEMS INC	Michigan	USAF	RDTE/Other Defense-Advanced Development	580
	KAMAN AEROSPACE CORPORATION	Arizona	ARMY	RDTE/Other Defense-Advanced Development	1,200
		Conn	ARMY	RDTE/Other Defense-Advanced Development	930
	CONTRACTOR TOTAL				2,130
	KESTREL INSTITUTE	California	USAF	RDTE/Other Defense-Advanced Development	276
	KNOWLEDGE BASED SYSTEM	Texas	USAF	RDTE/Other Defense-Advanced Development	454
	KNOWLEDGE SYSTEMS CONCEPTS	New York	ARMY	RDTE/Other Defense-Advanced Development	50
			USAF	RDTE/Other Defense-Advanced Development	100
	STATE TOTAL				150
	KOLLMORGEN CORPORATION	Mass	ARMY	RDTE/Other Defense-Advanced Development	1,310
	KTAADN INC	Mass	USAF	RDTE/Other Defense-Advanced Development	50
	LANGUAGE SYSTEMS INC	California	USAF	RDTE/Other Defense-Advanced Development	317
	LEHIGH UNIVERSITY	Penn	ARMY	RDTE/Other Defense-Advanced Development	127
	LICA SYSTEMS INC	Virginia	ARMY	RDTE/Other Defense-Advanced Development	120
	LITTON SYSTEMS INC	Mass	USAF	RDTE/Other Defense-Advanced Development	4,193
	LOCKHEED MISSILES & SPACE CO	Alabama	ARMY	RDTE/Other Defense-Advanced Development	1,575
		California	ARMY	RDTE/Other Defense-Advanced Development	5,500
		Maryland	ARMY	RDTE/Other Defense-Advanced Development	1,271
	CONTRACTOR TOTAL				8,346
	LOGICON INC	Ohio	USAF	RDTE/Other Defense-Advanced Development	865
	LORAL CORPORATION	Arizona	USAF	RDTE/Other Defense-Advanced Development	1,047
		Ohio	ARMY	RDTE/Other Defense-Advanced Development	5,745
	CONTRACTOR TOTAL				6,792
	LTV AEROSPACE & DEFENSE CO	Texas	ARMY	RDTE/Other Defense-Advanced Development	28,552

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD93 (CONTINUED)					
	M R J INC	Virginia	ARMY	RDTE/Other Defense-Advanced Development	4,930
	MAC AULAY BROWN INC	Ohio	NAVY	RDTE/Other Defense-Advanced Development	77
	MAGNAVOX GOVT & INDUSTRL ELCTR	Indiana	ARMY	RDTE/Other Defense-Advanced Development	229
	MAR INCORPORATED	Maryland	NAVY	RDTE/Other Defense-Advanced Development	1,873
	MARINE ACOUSTICS	Rhode Isld	NAVY	RDTE/Other Defense-Advanced Development	1,030
	MARINE IMAGING SYSTEMS INC	Mass	ARMY	RDTE/Other Defense-Advanced Development	90
	MARQUARDT COMPANY THE	California	USAF	RDTE/Other Defense-Advanced Development	118
	MARTIN MARIETTA CORPORATION	Colorado	ARMY	RDTE/Other Defense-Advanced Development	185,920
			NAVY	RDTE/Other Defense-Advanced Development	251
			USAF	RDTE/Other Defense-Advanced Development	59-
			STATE TOTAL		186,112
		D.C.	NAVY	RDTE/Other Defense-Advanced Development	121
		Florida	NAVY	RDTE/Other Defense-Advanced Development	1,200
		Maryland	USAF	RDTE/Other Defense-Advanced Development	655
					188,088
	CONTRACTOR TOTAL				62-
	MASSACHSTTS INST OF TECHNOLOGY	Mass	NAVY	RDTE/Other Defense-Advanced Development	
	MCDONNELL DOUGLAS CORPORATION	California	ARMY	RDTE/Other Defense-Advanced Development	6,885
		Colorado	ARMY	RDTE/Other Defense-Advanced Development	2,704
		Missouri	USAF	RDTE/Other Defense-Advanced Development	704
					10,293
	CONTRACTOR TOTAL				824
	MCDONNELL DOUGLAS MSL SYS CO	Missouri	USAF	RDTE/Other Defense-Advanced Development	
	MCDONNELL DOUGLAS SPACE SYS CO	California	ARMY	RDTE/Other Defense-Advanced Development	422
			USAF	RDTE/Other Defense-Advanced Development	5,380
			STATE TOTAL		5,802
		Colorado	ARMY	RDTE/Other Defense-Advanced Development	2,196

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AD93 (CONTINUED)					
	CONTRACTOR TOTAL				\$
	MECHANICAL TECHNOLOGY INC	New York	ARMY	RDTE/Other Defense-Advanced Development	7,998
	MENTOR TECHNOLOGIES INC	Maryland	ARMY	RDTE/Other Defense-Advanced Development	55
	MESSERSCHMITT BOELKOW BLOHM	GERMANY	ARMY	RDTE/Other Defense-Advanced Development	149
	MICRO CRAFT INC	Tennessee	USAF	RDTE/Other Defense-Advanced Development	7,694
	MIDWEST SYSTEMS RESEARCH INC	Ohio	USAF	RDTE/Other Defense-Advanced Development	49
	MINE SAFETY APPLIANCES CO	Penn	ARMY	RDTE/Other Defense-Advanced Development	290
	MISSION RESEARCH CORPORATION	California	ARMY	RDTE/Other Defense-Advanced Development	180
	MITSUBISHI HEAVY INDUSTRIES LT	JAPAN	ARMY	RDTE/Other Defense-Advanced Development	518
	NAMLAK	New York	NAVY	RDTE/Other Defense-Advanced Development	1,500
	NATIONAL ACADEMY SCIENCES USA	D.C.	NAVY	RDTE/Other Defense-Advanced Development	50
	NEW MEXICO STATE OF	New Mexico	ARMY	RDTE/Other Defense-Advanced Development	204
	NICHOLS RESEARCH CORPORATION	Alabama	ARMY USAF	RDTE/Other Defense-Advanced Development RDTE/Other Defense-Advanced Development	236 13,781 137
	CONTRACTOR TOTAL			STATE TOTAL	13,918
		Florida	NAVY	RDTE/Other Defense-Advanced Development	542
					14,460
	CONTRACTOR TOTAL				210
	NOISE CANCELLATION TECHNOLOGIE	Maryland	ARMY	RDTE/Other Defense-Advanced Development	120
	NORTH CAROLINA STATE UNIV	N Carolina	NAVY	RDTE/Other Defense-Advanced Development	103
	NORTHEAST PHOTO SCIENCES	N.H.	USAF	RDTE/Other Defense-Advanced Development	1,523
	NORTHROP CORPORATION	California	USAF	RDTE/Other Defense-Advanced Development	3,795
	NYSERNET INC	New York	USAF	RDTE/Other Defense-Advanced Development	220
	OCEAN REMOTE SENSING & ENGRG	California	NAVY	RDTE/Other Defense-Advanced Development	279
	OHIO STATE UNIVERSITY	Ohio	ARMY	RDTE/Other Defense-Advanced Development	

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AD93 (CONTINUED)					
	OKLAHOMA STATE UNIVERSITY	Oklahoma	ARMY	RDTE/Other Defense-Advanced Development	\$ 700
	OPTIMETRICS INC	Michigan	ARMY	RDTE/Other Defense-Advanced Development	400
	ORION INTL TECHNOLOGIES	New Mexico	USAF	RDTE/Other Defense-Advanced Development	40
	ORLANDO TECHNOLOGY INC	Florida	USAF	RDTE/Other Defense-Advanced Development	2,509
	PACIFIC SIERRA RESEARCH CORP	California	ARMY	RDTE/Other Defense-Advanced Development	625
			NAVY	RDTE/Other Defense-Advanced Development	285
	STATE TOTAL				910
	PAR TECHNOLOGY CORPORATION	New York	USAF	RDTE/Other Defense-Advanced Development	3,314
	PARAGON GRAPHICS INC	Florida	NAVY	RDTE/Other Defense-Advanced Development	293
	PARKER KINETIC DESIGN INC	Texas	ARMY	RDTE/Other Defense-Advanced Development	1,348
	PARSONS RALPH M COMPANY THE	Arkansas	ARMY	RDTE/Other Defense-Advanced Development	621
	PHASEX CORPORATION	Mass	USAF	RDTE/Other Defense-Advanced Development	49
	PHOTON RESEARCH ASSOCIATES	California	USAF	RDTE/Other Defense-Advanced Development	60
	PHYSICAL OPTICS CORPORATION	California	USAF	RDTE/Other Defense-Advanced Development	275
	PHYSICAL SCIENCES INC	Mass	ARMY	RDTE/Other Defense-Advanced Development	416
	PLANNING SYSTEMS INCORPORATED	Louisiana	NAVY	RDTE/Other Defense-Advanced Development	100
		Miss	NAVY	RDTE/Other Defense-Advanced Development	235
		Virginia	NAVY	RDTE/Other Defense-Advanced Development	1,610
	CONTRACTOR TOTAL				1,945
	POLAROID CORPORATION	Mass	USAF	RDTE/Other Defense-Advanced Development	526
	PRC INC	Virginia	ARMY	RDTE/Other Defense-Advanced Development	2,000
			USAF	RDTE/Other Defense-Advanced Development	499
	STATE TOTAL				2,499
	R & D ASSOCIATES	California	ARMY	RDTE/Other Defense-Advanced Development	45
			NAVY	RDTE/Other Defense-Advanced Development	300

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AD93 (CONTINUED)					

	STATE TOTAL				\$	345
R J O ENTERPRISES INC	Maryland	ARMY		RDTE/Other Defense-Advanced Development		5,531
RADIX SYSTEMS INC	Maryland	NAVY		RDTE/Other Defense-Advanced Development		98
RADKOWSKI ASSOCIATES	Maryland	NAVY		RDTE/Other Defense-Advanced Development		72
RAIL COMPANY	Maryland	ARMY		RDTE/Other Defense-Advanced Development		125
RASOR ASSOCIATES INC	California	USAF		RDTE/Other Defense-Advanced Development		114
RAVEN INC	Virginia	NAVY		RDTE/Other Defense-Advanced Development		1,021
RAYTHEON COMPANY	Mass	ARMY USAF		RDTE/Other Defense-Advanced Development RDTE/Other Defense-Advanced Development		3,401 3,127
	STATE TOTAL					6,528
REMECH INC	Alabama	USAF		RDTE/Other Defense-Advanced Development		49
RESEARCH APPLICATIONS INC	Texas	ARMY		RDTE/Other Defense-Advanced Development		69
RESEARCH TRIANGLE INSTITUTE	N Carolina	ARMY USAF		RDTE/Other Defense-Advanced Development RDTE/Other Defense-Advanced Development		100 40
	STATE TOTAL					140
RIVERSIDE RESEARCH INSTITUTE	New York	ARMY		RDTE/Other Defense-Advanced Development		8,550
ROCHESTER PHOTONICS CORP	New York	USAF		RDTE/Other Defense-Advanced Development		100
ROCKWELL INTERNATIONAL CORP	California	ARMY NAVY USAF		RDTE/Other Defense-Advanced Development RDTE/Other Defense-Advanced Development RDTE/Other Defense-Advanced Development		2,778 30 3,014
	STATE TOTAL					5,822
	Georgia	NAVY		RDTE/Other Defense-Advanced Development		328
CONTRACTOR TOTAL						6,150
ROCKWELL POWER SYSTEMS	Hawaii	USAF		RDTE/Other Defense-Advanced Development		2,841
	New Mexico	USAF		RDTE/Other Defense-Advanced Development		5,308
CONTRACTOR TOTAL						8,149

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AD93 (CONTINUED)					
	ROME RESEARCH CORP	New York	USAF	RDTE/Other Defense-Advanced Development	\$ 470
	S T SYSTEMS CORPORATION	Maryland	NAVY	RDTE/Other Defense-Advanced Development	52
	SAN JOSE STATE UNIVERSITY	California	USAF	RDTE/Other Defense-Advanced Development	43
	SAN JUAN TECHNOLOGIES	New Mexico	NAVY	RDTE/Other Defense-Advanced Development	47
	SATCON TECHNOLOGY CORPORATION	Mass	USAF	RDTE/Other Defense-Advanced Development	250
	SCHAFER W J ASSOCIATES INC	Mass	ARMY	RDTE/Other Defense-Advanced Development	23,095
	SCHMIDT INSTRUMENTS	Texas	USAF	RDTE/Other Defense-Advanced Development	50
	SCIENCE APPLICATION INTER CORP	California	ARMY	RDTE/Other Defense-Advanced Development	6,707
	SCIENCE APPLICATIONS INTL CORP	Alabama	ARMY	RDTE/Other Defense-Advanced Development	452
		Arizona	ARMY	RDTE/Other Defense-Advanced Development	2,859
		California	ARMY	RDTE/Other Defense-Advanced Development	3,423
		NAVY	NAVY	RDTE/Other Defense-Advanced Development	330
		USAF	USAF	RDTE/Other Defense-Advanced Development	2,545
	STATE TOTAL				6,298
		Ohio	USAF	RDTE/Other Defense-Advanced Development	280
		Virginia	ARMY	RDTE/Other Defense-Advanced Development	1,875
		NAVY	NAVY	RDTE/Other Defense-Advanced Development	83
	STATE TOTAL				1,958
	CONTRACTOR TOTAL				11,847
	SCIENCE RESEARCH LABORATORY	California	NAVY	RDTE/Other Defense-Advanced Development	200
		Mass	ARMY	RDTE/Other Defense-Advanced Development	987
		USAF	USAF	RDTE/Other Defense-Advanced Development	50
	STATE TOTAL				1,037
	CONTRACTOR TOTAL				1,237
	SEA TECH INC	Oregon	NAVY	RDTE/Other Defense-Advanced Development	197
	SECURE CMPTING TECHNOLOGY CORP	Minnesota	USAF	RDTE/Other Defense-Advanced Development	148
	SIERRA MONOLITHICS INC	California	NAVY	RDTE/Other Defense-Advanced Development	199

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD93 (CONTINUED,					
	SIGNAL PROCESSING TECHNOLOGY	California	NAVY	RDTE/Other Defense-Advanced Development	52
	SILICON ENGINES INC	California	NAVY	RDTE/Other Defense-Advanced Development	50
	SIMULATION TECHNOLOGIES INC	Alabama	ARMY	RDTE/Other Defense-Advanced Development	119
	SIPPICAN INC	Mass	NAVY	RDTE/Other Defense-Advanced Development	328
	SOFRADIR	FRANCE	ARMY	RDTE/Other Defense-Advanced Development	299
	SOFTWARE PRODUCTIVITY SOLUTIONS	Florida	USAF	RDTE/Other Defense-Advanced Development	216
	SOL TELECOMMUNICATION SERVICE	Virginia	ARMY	RDTE/Other Defense-Advanced Development	35
	SOREG NEUCLEAR RESEARCH CENTER	ISRAEL	ARMY	RDTE/Other Defense-Advanced Development	1,144
	SOUTHEASTN CTR ELECTR ENG ED	Florida	USAF	RDTE/Other Defense-Advanced Development	228
	SPACE APPLICATIONS CORPORATION	California	ARMY	RDTE/Other Defense-Advanced Development	4,003
	SPACE COMPUTER CORP	California	ARMY USAF	RDTE/Other Defense-Advanced Development RDTE/Other Defense-Advanced Development	300 114
		STATE TOTAL			414
	SPACE DATA CORPORATION	Arizona	ARMY	RDTE/Other Defense-Advanced Development	24,352
	SPACE POWER INCORPORATED	California	USAF	RDTE/Other Defense-Advanced Development	641
	SPARTA INC	Alabama	USAF	RDTE/Other Defense-Advanced Development	243
		California	USAF	RDTE/Other Defense-Advanced Development	300
		Ohio	USAF	RDTE/Other Defense-Advanced Development	140
	CONTRACTOR TOTAL				683
	SPECTRA DIODE LABORATORIES	California	USAF	RDTE/Other Defense-Advanced Development	3,451
	SPECTRON DEVELOPMENT LABS	California	NAVY	RDTE/Other Defense-Advanced Development	95
	SRI INTERNATIONAL	California	ARMY NAVY USAF	RDTE/Other Defense-Advanced Development RDTE/Other Defense-Advanced Development RDTE/Other Defense-Advanced Development	6,011 502 704
		STATE TOTAL			7,217

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AD93 (CONTINUED)					
	SRS TECHNOLOGIES	California	ARMY	RDTE/Other Defense-Advanced Development	\$ 4,890
	STANFORD UNIVERSITY	California	NAVY	RDTE/Other Defense-Advanced Development	162
	STERLING FEDERAL SYSTEMS INC	Nebraska	USAF	RDTE/Other Defense-Advanced Development	340
	STONE & WEBSTER ENGRG CORP	D.C.	ARMY	RDTE/Other Defense-Advanced Development	497
	SYNCHRONETICS INC	Maryland	USAF	RDTE/Other Defense-Advanced Development	50
	SYNECTICS CORP	New York	USAF	RDTE/Other Defense-Advanced Development	267
	SYRACUSE UNIVERSITY	New York	ARMY	RDTE/Other Defense-Advanced Development	75
	SYSTEM PLANNING CORPORATION	Virginia	ARMY	RDTE/Other Defense-Advanced Development	2,933
	SYSTEMS & PROCESSES ENGRG CORP	Texas	NAVY	RDTE/Other Defense-Advanced Development	359
	SYSTEMS ANALYSIS & INTEGRATION	California	NAVY	RDTE/Other Defense-Advanced Development	2,654
	SYSTEMS ENGRG & MGT ASSOC	Virginia	ARMY	RDTE/Other Defense-Advanced Development	3,219
	SYSTEMS EXPLORATION INC	Ohio	USAF	RDTE/Other Defense-Advanced Development	1,315
	TECHNOLOGY ASSSSMENT TRANSF INC	Maryland	ARMY	RDTE/Other Defense-Advanced Development	782
	TERA COMPUTER CO	Washington	ARMY	RDTE/Other Defense-Advanced Development	500
	TETRA CORPORATION	New Mexico	USAF	RDTE/Other Defense-Advanced Development	59
	TEXAS INSTRUMENTS INC	Texas	ARMY	RDTE/Other Defense-Advanced Development	2,142
			NAVY	RDTE/Other Defense-Advanced Development	700
			USAF	RDTE/Other Defense-Advanced Development	382
			STATE TOTAL		3,224
	THERMACORE INC	Penn	USAF	RDTE/Other Defense-Advanced Development	518
	THERMO ELCTRON TCHNOLGIES CORP	California	NAVY	RDTE/Other Defense-Advanced Development	1,409
	THIOKOL CORPORATION	Utah	NAVY	RDTE/Other Defense-Advanced Development	25
	TINSLEY LABORATORIES INC	California	USAF	RDTE/Other Defense-Advanced Development	225
	TITAN CORPORATION	California	ARMY	RDTE/Other Defense-Advanced Development	221
	TRACOR APPLIED SCIENCES INC	Texas	NAVY	RDTE/Other Defense-Advanced Development	1,773
	TRACOR FLIGHT SERVICES INC	California	ARMY	RDTE/Other Defense-Advanced Development	488

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	DESCRIPTION	
AD93 (CONTINUED)	TRW INC	California	ARMY NAVY USAF	RDTE/Other Defense-Advanced Development RDTE/Other Defense-Advanced Development RDTE/Other Defense-Advanced Development	\$ 47,865 350 1,367
		STATE TOTAL			49,582
		Colorado	USAF	RDTE/Other Defense-Advanced Development	5,900
					55,482
	CONTRACTOR TOTAL				
	U S FOOD & DRUG ADMINISTRATION	Maryland	NAVY	RDTE/Other Defense-Advanced Development	36
	UNION CORPORATION	Penn	ARMY	RDTE/Other Defense-Advanced Development	314
	UNISYS DEFENSE SYSTEMS INC	Minnesota	NAVY USAF	RDTE/Other Defense-Advanced Development RDTE/Other Defense-Advanced Development	100 3,574
		STATE TOTAL			3,674
	UNITED KINGDOM MINISTRY OF DEF	UNITED KIN	ARMY	RDTE/Other Defense-Advanced Development	6,428
	UNITED STATES DEPT OF COMMERCE	Colorado	NAVY	RDTE/Other Defense-Advanced Development	72
	UNITED STATES DEPT OF ENERGY	California	NAVY	RDTE/Other Defense-Advanced Development	100
		Illinois	NAVY	RDTE/Other Defense-Advanced Development	300
	CONTRACTOR TOTAL				400
	UNITED STATES DEPT OF INTERIOR	Virginia	NAVY	RDTE/Other Defense-Advanced Development	195
	UNITED TECHNOLOGIES CORP	California	NAVY	RDTE/Other Defense-Advanced Development	75
		Conn	NAVY USAF	RDTE/Other Defense-Advanced Development RDTE/Other Defense-Advanced Development	158 739
		STATE TOTAL			897
		Florida	USAF	RDTE/Other Defense-Advanced Development	3,334
	CONTRACTOR TOTAL				4,306
	UNIVERSAL ENERGY SYSTEMS INC	Ohio	USAF	RDTE/Other Defense-Advanced Development	769
	UNIVERSAL TECHNOLOGY CORP	Ohio	USAF	RDTE/Other Defense-Advanced Development	106
	UNIVERSITY OF CALIFORNIA	California	ARMY	RDTE/Other Defense-Advanced Development	449

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	NAVY	RDTE/Other Defense-Advanced Development	\$
AD93 (CONTINUED)							
	UNIVERSITY OF DAYTON INC	Arizona	USAF	RDTE/Other Defense-Advanced Development			3,378
		Ohio	USAF	RDTE/Other Defense-Advanced Development			3,827
							557
							1,058
							1,615
	UNIVERSITY OF FLORIDA	Florida	USAF	RDTE/Other Defense-Advanced Development			66
	UNIVERSITY OF ILLINOIS	Illinois	NAVY	RDTE/Other Defense-Advanced Development			100
	UNIVERSITY OF KENTUCKY	Kentucky	USAF	RDTE/Other Defense-Advanced Development			45
	UNIVERSITY OF MASSACHUSETTS	Mass	ARMY	RDTE/Other Defense-Advanced Development			545
	UNIVERSITY OF MIAMI INC	Florida	NAVY	RDTE/Other Defense-Advanced Development			46
	UNIVERSITY OF SOUTH FLORIDA	Florida	NAVY	RDTE/Other Defense-Advanced Development			100
	UNIVERSITY OF SOUTHERN CALIF	California	USAF	RDTE/Other Defense-Advanced Development			813
	URS CORPORATION	California	ARMY	RDTE/Other Defense-Advanced Development			62-
	UTAH STATE UNIVERSITY	Utah	ARMY	RDTE/Other Defense-Advanced Development			30,833
	VANGUARD RESEARCH INC	Virginia	ARMY	RDTE/Other Defense-Advanced Development			1,525
	VARIAN ASSOCIATES INC	California	USAF	RDTE/Other Defense-Advanced Development			240
	VEDA INCORPORATED	Ohio	USAF	RDTE/Other Defense-Advanced Development			206
	VEDA INTERNATIONAL INC	Virginia	USAF	RDTE/Other Defense-Advanced Development			239
	VER VAL ENTERPRISES INC	Florida	ARMY	RDTE/Other Defense-Advanced Development			328
	VICTORIA INTERNATIONAL LTD	Virginia	NAVY	RDTE/Other Defense-Advanced Development			29-
	VIRGINIA PLTYCHNIC INST/ST UNI	Virginia	NAVY	RDTE/Other Defense-Advanced Development			206
	WAGNER DANIEL H ASSOCIATES	Penn	NAVY	RDTE/Other Defense-Advanced Development			249
	WASHINGTON STATE UNIVERSITY	Washington	USAF	RDTE/Other Defense-Advanced Development			38
	WESTINGHOUSE ELECTRIC CORP	Maryland	ARMY	RDTE/Other Defense-Advanced Development			1,166

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R&D	CONTRACTOR NAME	ST/ENTRY	DEPT	R&D DESCRIPTION	
AD93 (CONTINUED)					
	CONTRACTOR TOTAL				
	WORCESTER PLYTHNIC INSTITUTE				
	XERAD INC				
	R&D TOTAL				
AD94	A E C DESIGN				
	ADROIT SYSTEMS INC				
	ADVANCED DECISION SYSTEMS				
	ALAR PRODUCTS INC				
	ARO CORPORATION				
	ATLANTIC AEROSPACE ELECTRONICS				
	AYDIN CORPORATION				
	BALL CORPORATION				
	BDM INTERNATIONAL INC				
	CONTRACTOR TOTAL				
	BOEING AEROSPACE & ELECTRONICS				
	BOEING COMPANY THE				
	BOEING ELECTRONICS INC				
	BOOZ ALLEN & HAMILTON INC				
	BRUNSWICK CORPORATION				
	CAE INDUSTRIES LTD				
	CONTRACTOR TOTAL				
	USAF				
	RDTE/Other Defense-Advanced Development				
	STATE TOTAL				
	Penn				
	USAF				
	RDTE/Other Defense-Advanced Development				
	Mass				
	NAVY				
	RDTE/Other Defense-Advanced Development				
	California				
	ARMY				
	RDTE/Other Defense-Advanced Development				
	Virginia				
	NAVY				
	RDTE/Other Defense-Engineering Development				
	Virginia				
	USAF				
	RDTE/Other Defense-Engineering Development				
	California				
	USAF				
	RDTE/Other Defense-Engineering Development				
	Ohio				
	USAF				
	RDTE/Other Defense-Engineering Development				
	New York				
	USAF				
	RDTE/Other Defense-Engineering Development				
	Maryland				
	ARMY				
	RDTE/Other Defense-Engineering Development				
	Penn				
	NAVY				
	RDTE/Other Defense-Engineering Development				
	California				
	USAF				
	RDTE/Other Defense-Engineering Development				
	Miss				
	NAVY				
	RDTE/Other Defense-Engineering Development				
	Virginia				
	ARMY				
	RDTE/Other Defense-Engineering Development				
	Washington				
	USAF				
	RDTE/Other Defense-Engineering Development				
	Washington				
	USAF				
	RDTE/Other Defense-Engineering Development				
	Washington				
	NAVY				
	RDTE/Other Defense-Engineering Development				
	Maryland				
	ARMY				
	RDTE/Other Defense-Engineering Development				
	Florida				
	ARMY				
	RDTE/Other Defense-Engineering Development				
	Arkansas				
	USAF				
	RDTE/Other Defense-Engineering Development				

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AD94 (CONTINUED)

	CONTRACTOR TOTAL				
	CALSPAN CORPORATION	New York	USAF	RDTE/Other Defense-Engineering Development	\$ 1,582-
	CARTWRIGHT ELECTRONICS INC	Texas	USAF	RDTE/Other Defense-Engineering Development	659-
	CHAMBERLAIN MANUFACTURING CORP	Ohio	USAF	RDTE/Other Defense-Engineering Development	2,082-
	COLSA INC	California	NAVY	RDTE/Other Defense-Engineering Development	59
	COMPUTER SCIENCE INNOVATIONS	Maryland	ARMY	RDTE/Other Defense-Engineering Development	49
	CONTRAVES USA INC	Alabama	ARMY	RDTE/Other Defense-Engineering Development	7,221
	DBA SYSTEMS INC	Florida	USAF	RDTE/Other Defense-Engineering Development	253
	DRAPER CHARLES STARK LAB INC	Penn	ARMY	RDTE/Other Defense-Engineering Development	36
	E SYSTEMS INC	Florida	ARMY	RDTE/Other Defense-Engineering Development	1,025
	EAGLE SYSTEMS INC	Mass	NAVY	RDTE/Other Defense-Engineering Development	70
	EARTH TECHNOLOGY CORP	Texas	USAF	RDTE/Other Defense-Engineering Development	230
	ECONOMICS TECHNOLOGY ASSOC	Maryland	NAVY	RDTE/Other Defense-Engineering Development	13,963
	ELECTRONIC ASSOCIATES INC	California	USAF	RDTE/Other Defense-Engineering Development	30
	ENSCO INC	California	USAF	RDTE/Other Defense-Engineering Development	73-
	ENVIRONMENTAL RES INST OF MICH	New Jersey	ARMY	RDTE/Other Defense-Engineering Development	3,373
	ENVIRONMENTAL TECHNOLOGIES GRP	Virginia	ARMY	RDTE/Other Defense-Engineering Development	2,369
	FAGIN SAMUEL L ASSOC	Michigan	ARMY	RDTE/Other Defense-Engineering Development	50
	GENERAL DYNAMICS CORPORATION	Michigan	USAF	RDTE/Other Defense-Engineering Development	300
				RDTE/Other Defense-Engineering Development	621
					921
	STATE TOTAL				
		Maryland	ARMY	RDTE/Other Defense-Engineering Development	12,450
		Penn	NAVY	RDTE/Other Defense-Engineering Development	375
		California	NAVY	RDTE/Other Defense-Engineering Development	34,028
		Michigan	ARMY	RDTE/Other Defense-Engineering Development	32,580

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AD94 (CONTINUED)

CONTRACTOR TOTAL					\$
GENERAL ELECTRIC COMPANY	New York	USAF	RDTE/Other Defense-Engineering Development		66,608
GENERAL MOTORS CORPORATION	Indiana	ARMY	RDTE/Other Defense-Engineering Development		182
GENERAL RESEARCH CORPORATION	Alabama	USAF	RDTE/Other Defense-Engineering Development		412
GEO CENTERS INC	Mass	NAVY	RDTE/Other Defense-Engineering Development		500
GEORGIA TECH RESEARCH CORP	Georgia	ARMY	RDTE/Other Defense-Engineering Development		80
GNOSTECH INC	Penn	NAVY	RDTE/Other Defense-Engineering Development		46
GRAHAM RESEARCH	Penn	ARMY	RDTE/Other Defense-Engineering Development		783
GUIDED SYS TECH GA	Georgia	NAVY	RDTE/Other Defense-Engineering Development		57
HONEYWELL INC	Minnesota	NAVY	RDTE/Other Defense-Engineering Development		130
HRB SYSTEMS INC	Penn	USAF	RDTE/Other Defense-Engineering Development		107
HUGHES AIRCRAFT & RAYTHEON JV	California	NAVY	RDTE/Other Defense-Engineering Development		208
	Mass	NAVY	RDTE/Other Defense-Engineering Development		35,810
					1,250
					37,060
CONTRACTOR TOTAL					
HUGHES AIRCRAFT COMPANY	California	USAF	RDTE/Other Defense-Engineering Development		386
I L C INDUSTRIES DELAWARE	Delaware	USAF	RDTE/Other Defense-Engineering Development		1,531
ILLINOIS TOOL WORKS INC	Illinois	USAF	RDTE/Other Defense-Engineering Development		741
INFORMATION SYSTEMS NTRKS CORP	Ohio	USAF	RDTE/Other Defense-Engineering Development		511
INTEGRATED MICROCOMPUTER SYS	Maryland	NAVY	RDTE/Other Defense-Engineering Development		247
INTERMETRICS INC	Ohio	USAF	RDTE/Other Defense-Engineering Development		416
INTERNATIONAL BUS MCHS CORP	Virginia	USAF	RDTE/Other Defense-Engineering Development		1,950
INTERNATIONAL TECH TRAN, INC	New Jersey	ARMY	RDTE/Other Defense-Engineering Development		50
ISA ASSOCIATES INC	Virginia	NAVY	RDTE/Other Defense-Engineering Development		69
KAPOS ASSOCIATES INC	Virginia	ARMY	RDTE/Other Defense-Engineering Development		30

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CONTRY	DEPT	R&D DESCRIPTION	
AD94 (CONTINUED)					
	LOCKHEED MISSILES & SPACE CO	California	ARMY	RDTE/Other Defense-Engineering Development	\$ 3,988
		Maryland	ARMY	RDTE/Other Defense-Engineering Development	950
	CONTRACTOR TOTAL				4,938
	LOCUS INC	Penn	NAVY	RDTE/Other Defense-Engineering Development	162
	LOGICON INC	Ohio	USAF	RDTE/Other Defense-Engineering Development	165
	LORAL CORPORATION	New York	NAVY	RDTE/Other Defense-Engineering Development	31,439
		Ohio	ARMY	RDTE/Other Defense-Engineering Development	2,000
	CONTRACTOR TOTAL				33,439
	LOS ALAMOS TECHNICAL ASSOC INC	New Mexico	ARMY	RDTE/Other Defense-Engineering Development	70
	MALIBU RESEARCH ASSOCIATES	California	NAVY	RDTE/Other Defense-Engineering Development	50
	MANAGEMENT CONSULTING & RES	Virginia	NAVY	RDTE/Other Defense-Engineering Development	78
	MARK RESOURCES INC	California	NAVY	RDTE/Other Defense-Engineering Development	50
	MARTIN BAKER AIRCRAFT CO LTD	UNITED KIN	NAVY	RDTE/Other Defense-Engineering Development	1,150
	MARTIN MARIETTA CORPORATION	Florida	NAVY	RDTE/Other Defense-Engineering Development	313
		Maryland	ARMY	RDTE/Other Defense-Engineering Development	1,776
			USAF	RDTE/Other Defense-Engineering Development	188
	CONTRACTOR TOTAL				1,964
	STATE TOTAL				2,277
	MCDONNELL DOUGLAS ELECTRON SYS	Colorado	USAF	RDTE/Other Defense-Engineering Development	356
	MEI ASSOCIATES INC	Mass	USAF	RDTE/Other Defense-Engineering Development	913
	METRON INC	Penn	NAVY	RDTE/Other Defense-Engineering Development	516
	MISSION RESEARCH CORPORATION	D.C.	NAVY	RDTE/Other Defense-Engineering Development	260
	MODERN TECHNOLOGIES CORP	Texas	USAF	RDTE/Other Defense-Engineering Development	3,657
	NEW MEXICO STATE OF	New Mexico	ARMY	RDTE/Other Defense-Engineering Development	82

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD94 (CONTINUED)					
	OSHKOSH TRUCK CORPORATION	Wisconsin	ARMY	RDTE/Other Defense-Engineering Development	16,581
	PLANNING SYSTEMS INCORPORATED	Miss	NAVY	RDTE/Other Defense-Engineering Development	180
	POLYMER TECHNOLOGIES INC	New Jersey	ARMY	RDTE/Other Defense-Engineering Development	250
	QUESTECH INC	Virginia	NAVY	RDTE/Other Defense-Engineering Development	55
	RAYTHEON COMPANY	Mass	NAVY	RDTE/Other Defense-Engineering Development	197
	ROCKWELL INTERNATIONAL CORP	California	ARMY	RDTE/Other Defense-Engineering Development	4,084
	ROCKWELL POWER SYSTEMS	New Mexico	USAF	RDTE/Other Defense-Engineering Development	1,027
	SCIENCE APPLICATIONS INTL CORP	California	NAVY	RDTE/Other Defense-Engineering Development	249
		Maine	USAF	RDTE/Other Defense-Engineering Development	105
		Ohio	USAF	RDTE/Other Defense-Engineering Development	1,499
					1,853
	CONTRACTOR TOTAL				
	SEPARATION SYSTEMS TECH INC	California	ARMY	RDTE/Other Defense-Engineering Development	199
	SHIP ANALYTICS INC	Conn	NAVY	RDTE/Other Defense-Engineering Development	99
	SIMULATION TECHNOLOGIES INC	Alabama	ARMY	RDTE/Other Defense-Engineering Development	50
	SOFTTECH INC	Virginia	USAF	RDTE/Other Defense-Engineering Development	7,373
	SOUTHWEST RESEARCH INSTITUTE	Texas	NAVY	RDTE/Other Defense-Engineering Development	122
	SPRINGBORN LABORATORIES INC	Conn	NAVY	RDTE/Other Defense-Engineering Development	104
	STV ENGINEERS INC	Penn	NAVY	RDTE/Other Defense-Engineering Development	900
	SYLVEST MANAGEMENT SYSTEM	Maryland	NAVY	RDTE/Other Defense-Engineering Development	465
	SYNECTICS CORP	New York	USAF	RDTE/Other Defense-Engineering Development	2,095
	TECHNION RESEARCH & DEVELOPMEN	ISRAEL	USAF	RDTE/Other Defense-Engineering Development	45
	TECHNOLOGY INTERNATIONAL INC	Louisiana	ARMY	RDTE/Other Defense-Engineering Development	50
	TENNESSEE STATE UNIVERSITY	Tennessee	USAF	RDTE/Other Defense-Engineering Development	148
	TRW INC	California	NAVY	RDTE/Other Defense-Engineering Development	36-

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD94 (CONTINUED)					
	CONTRACTOR TOTAL				
	UNISYS CORPORATION	Colorado	USAF	RDTE/Other Defense-Engineering Development	5,137
	UNISYS DEFENSE SYSTEMS INC	Ohio	USAF	RDTE/Other Defense-Engineering Development	5,101
	UNITED TECHNOLOGIES CORP	New York	USAF	RDTE/Other Defense-Engineering Development	
	UNIVERSITY OF CENTRAL FLORIDA	Florida	NAVY	RDTE/Other Defense-Engineering Development	475
	UNIVERSITY OF DAYTON INC	Florida	NAVY	RDTE/Other Defense-Engineering Development	381
		Ohio	USAF	RDTE/Other Defense-Engineering Development	110
R&D TOTAL					252,843
AD95	AEROJET	California	USAF	RDTE/Other Defense-Operational Systems Dev	80,687
	ALAR PRODUCTS INC	Ohio	USAF	RDTE/Other Defense-Operational Systems Dev	56
	ANALYTIC SERVICES INC	Virginia	ARMY	RDTE/Other Defense-Operational Systems Dev	300
	AQUA CHEM INC	Wisconsin	ARMY	RDTE/Other Defense-Operational Systems Dev	16,062
		S ARABIA	ARMY	RDTE/Other Defense-Operational Systems Dev	332
	CONTRACTOR TOTAL				16,394
	ARETE ASSOCIATES	California	NAVY	RDTE/Other Defense-Operational Systems Dev	500
	ASSOCIATED RIGGERS & ERECTORS	Georgia	USAF	RDTE/Other Defense-Operational Systems Dev	115
	B K DYNAMICS INC	Maryland	NAVY	RDTE/Other Defense-Operational Systems Dev	356
	BDM INTERNATIONAL INC	Virginia	ARMY	RDTE/Other Defense-Operational Systems Dev	2,233
			NAVY	RDTE/Other Defense-Operational Systems Dev	2,146
	STATE TOTAL				4,379
	BECHDON COMPANY INC	Maryland	NAVY	RDTE/Other Defense-Operational Systems Dev	184
	BERKELEY RESEARCH ASSOCIATES	Virginia	ARMY	RDTE/Other Defense-Operational Systems Dev	120
	BOEING COMPANY THE	Washington	USAF	RDTE/Other Defense-Operational Systems Dev	10,486
	BOOZ ALLEN & HAMILTON INC	Maryland	ARMY	RDTE/Other Defense-Operational Systems Dev	75



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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	USAF	RDTE/Other Defense-Operational Systems Dev	\$
AD95 (CONTINUED)							
	BRTRC INC	Virginia	ARMY	RDTE/Other Defense-Operational Systems Dev			240
	CAM LOCK UK LIMITED	UNITED KIN	NAVY	RDTE/Other Defense-Operational Systems Dev			315
	CAMPBELL ENGINEERING INC	Alabama	NAVY	RDTE/Other Defense-Operational Systems Dev			29
	CARNEGIE MELLON UNIVERSITY	Penn	USAF	RDTE/Other Defense-Operational Systems Dev			64
	CLARK ATLANTA UNIVERSITY	Georgia	ARMY	RDTE/Other Defense-Operational Systems Dev			63
	COMPUTER SCIENCES CORPORATION	Virginia	ARMY	RDTE/Other Defense-Operational Systems Dev			300
	CONSULTANT SPECIALIST INC	Oregon	ARMY	RDTE/Other Defense-Operational Systems Dev			55
	DIGICOMP RESEARCH CORP	New York	USAF	RDTE/Other Defense-Operational Systems Dev			5,339
	DYNAMICS TECHNOLOGY	California	NAVY	RDTE/Other Defense-Operational Systems Dev			238
	E SYSTEMS INC	Texas	USAF	RDTE/Other Defense-Operational Systems Dev			1,079
	EG&G INC	New Mexico	NAVY	RDTE/Other Defense-Operational Systems Dev			170
	EG&G WASHINGTON ANALYTICAL SVC	Maryland	NAVY	RDTE/Other Defense-Operational Systems Dev			1,019
	ELECTRONICS AUTOMATION CORP	Georgia	USAF	RDTE/Other Defense-Operational Systems Dev			57
	ENSCO INC	Florida	USAF	RDTE/Other Defense-Operational Systems Dev			196
	ESL INCORPORATED	California	ARMY	RDTE/Other Defense-Operational Systems Dev			34
	EXTERIOR WALL SYSTEMS EWS NC	New York	ARMY	RDTE/Other Defense-Operational Systems Dev			2,140
	FAAC INCORPORATED	Michigan	NAVY	RDTE/Other Defense-Operational Systems Dev			18,333
	FAILURE ANALYSIS ASSOCIATES	Washington	ARMY	RDTE/Other Defense-Operational Systems Dev			50
	FIBERTEK INC	Virginia	ARMY	RDTE/Other Defense-Operational Systems Dev			1,590
	G R D INC	Penn	NAVY	RDTE/Other Defense-Operational Systems Dev			45
	GALAXY SCIENTIFIC CORP	New Jersey	NAVY	RDTE/Other Defense-Operational Systems Dev			194
	GENERAL APPLIED SCIENCE	New York	USAF	RDTE/Other Defense-Operational Systems Dev			187
							60
							38

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CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD95 (CONTINUED)				
GENERAL DYNAMICS CORPORATION	Michigan	ARMY	RDTE/Other Defense-Operational Systems Dev	266
	Texas	ARMY	RDTE/Other Defense-Operational Systems Dev	198
CONTRACTOR TOTAL				464
GENERAL ELECTRIC COMPANY	New Jersey	NAVY	RDTE/Other Defense-Operational Systems Dev	421
GENERAL SVCS ADMINISTRATION	Virginia	NAVY	RDTE/Other Defense-Operational Systems Dev	53
GTE GOVERNMENT SYSTEMS CORP	Maryland	USAF	RDTE/Other Defense-Operational Systems Dev	414
HARRIS CORPORATION	Florida	USAF	RDTE/Other Defense-Operational Systems Dev	1,555
	Indiana	USAF	RDTE/Other Defense-Operational Systems Dev	103
	New Jersey	USAF	RDTE/Other Defense-Operational Systems Dev	326
	Texas	USAF	RDTE/Other Defense-Operational Systems Dev	471
CONTRACTOR TOTAL				2,455
HUGHES AIRCRAFT COMPANY	California	USAF	RDTE/Other Defense-Operational Systems Dev	450
HUMAN RSRCES RES ORGANIZATION	Vi-ginia	NAVY	RDTE/Other Defense-Operational Systems Dev	224
INFORMTION SYSTEMS NTRKS CORP	Maryland	USAF	RDTE/Other Defense-Operational Systems Dev	395
	Ohio	USAF	RDTE/Other Defense-Operational Systems Dev	282
CONTRACTOR TOTAL				677
INTEC INCORPORATED	Virginia	ARMY	RDTE/Other Defense-Operational Systems Dev	254
INTERNATIONAL TECHNGLY SRVCS	Penn	ARMY	RDTE/Other Defense-Operational Systems Dev	50
ITT CORPORATION	California	USAF	RDTE/Other Defense-Operational Systems Dev	282
JOHNS HOPKINS UNIVERSITY	Maryland	NAVY	RDTE/Other Defense-Operational Systems Dev	725
KETRON INC	Penn	NAVY	RDTE/Other Defense-Operational Systems Dev	937
KEYSTONE COMPUTER ASSOCIATES	Penn	NAVY	RDTE/Other Defense-Operational Systems Dev	330
KNOWLEDGE SYSTEMS CONCEPTS	California	USAF	RDTE/Other Defense-Operational Systems Dev	843
	New York	USAF	RDTE/Other Defense-Operational Systems Dev	165

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AD95 (CONTINUED)					
	CONTRACTOR TOTAL				
	LARSON ELECTRONICS INC	Texas	USAF	RDTE/Other Defense-Operational Systems Dev	100
					1,108
	LOCKHEED MISSILES & SPACE CO	California	NAVY	RDTE/Other Defense-Operational Systems Dev	50
			USAF	RDTE/Other Defense-Operational Systems Dev	38
					872
	STATE TOTAL				910
	LOCKHEED SANDERS INC	N.H.	USAF	RDTE/Other Defense-Operational Systems Dev	50
	LOCUS INC	Penn	NAVY	RDTE/Other Defense-Operational Systems Dev	516
	LOGICON INC	Ohio	USAF	RDTE/Other Defense-Operational Systems Dev	92
	LORAL CORPORATION	Ohio	USAF	RDTE/Other Defense-Operational Systems Dev	3,252
	LSA INC	Virginia	USAF	RDTE/Other Defense-Operational Systems Dev	30
	M R J INC	Virginia	ARMY	RDTE/Other Defense-Operational Systems Dev	49
	MATRIX MANAGEMENT GROUP	Washington	ARMY	RDTE/Other Defense-Operational Systems Dev	42
	MERCER UNIVERSITY	Georgia	USAF	RDTE/Other Defense-Operational Systems Dev	1,146
	MISSION RESEARCH CORPORATION	California	ARMY	RDTE/Other Defense-Operational Systems Dev	300
	MJ PHOTONICS INC	New Jersey	USAF	RDTE/Other Defense-Operational Systems Dev	80
	MNEMONICS INC	Florida	NAVY	RDTE/Other Defense-Operational Systems Dev	250
	MOTOROLA INC	Arizona	ARMY	RDTE/Other Defense-Operational Systems Dev	166
	NATIONAL ACADEMY SCIENCES USA	D.C.	NAVY	RDTE/Other Defense-Operational Systems Dev	520
	NATIONAL SEMICONDUCTOR CORP	California	NAVY	RDTE/Other Defense-Operational Systems Dev	345
	NATIVE AMERICAN SERVICE ASSN	Alabama	ARMY	RDTE/Other Defense-Operational Systems Dev	1,324
	NDI ENGINEERING COMPANY	New Jersey	NAVY	RDTE/Other Defense-Operational Systems Dev	44
	NORTHROP CORPORATION	California	ARMY	RDTE/Other Defense-Operational Systems Dev	509
			USAF	RDTE/Other Defense-Operational Systems Dev	581
	STATE TOTAL				1,090

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AD95 (CONTINUED)					
	ORINCON CORPORATION	California	NAVY	RDTE/Other Defense-Operational Systems Dev	\$ 50
	PACER SYSTEMS INC	Mass	NAVY	RDTE/Other Defense-Operational Systems Dev	250
		Penn	NAVY	RDTE/Other Defense-Operational Systems Dev	175
	CONTRACTOR TOTAL				425
	PAR TECHNOLOGY CORPORATION	New York	USAF	RDTE/Other Defense-Operational Systems Dev	574
	PERSONNEL DCSONS RES INSTITUTE	Minnesota	NAVY	RDTE/Other Defense-Operational Systems Dev	93
	PRC INC	Nebraska	USAF	RDTE/Other Defense-Operational Systems Dev	1,090
		Virginia	USAF	RDTE/Other Defense-Operational Systems Dev	3,653
	CONTRACTOR TOTAL				4,743
	PURDUE UNIVERCITY	Indiana	NAVY	RDTE/Other Defense-Operational Systems Dev	63
	QUANTICS INC	Penn	NAVY	RDTE/Other Defense-Operational Systems Dev	425
	QUESTTECH INC	Virginia	NAVY	RDTE/Other Defense-Operational Systems Dev	124
	R & D ASSOCIATES	California	NAVY	RDTE/Other Defense-Operational Systems Dev	150
	ROBINSON D G CORP	Alabama	ARMY	RDTE/Other Defense-Operational Systems Dev	78
	ROCKWELL INTERNATIONAL CORP	California	NAVY	RDTE/Other Defense-Operational Systems Dev	80
	RONSON MANAGEMENT CORP	Virginia	ARMY	RDTE/Other Defense-Operational Systems Dev	851
	SCIENCE APPLICATIONS INTL CORP	California	ARMY USAF	RDTE/Other Defense-Operational Systems Dev	69 554
	STATE TOTAL				623
	SECURE CMPTING TECHNOLOGY CORP	Minnesota	USAF	RDTE/Other Defense-Operational Systems Dev	113
	SENSIS CORPORATION	New York	ARMY	RDTE/Other Defense-Operational Systems Dev	58
	SICOM INC	Arizona	USAF	RDTE/Other Defense-Operational Systems Dev	171
	SIGNAL SCIENCE INC	California	USAF	RDTE/Other Defense-Operational Systems Dev	88
	SPARTA INC	California	ARMY	RDTE/Other Defense-Operational Systems Dev	951
	SRI INTERNATIONAL	California	NAVY	RDTE/Other Defense-Operational Systems Dev	116

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## PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

FISCAL YEAR 1991

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	USAF	RDTE/Other	Defense-Operational	Systems Dev	\$
AD95 (CONTINUED)									
	STANFORD UNIVERSITY	California	NAVY	RDTE/Other	Defense-Operational	Systems Dev		946	
	STATE UNIVERSITY OF NEW YORK	New York	NAVY	RDTE/Other	Defense-Operational	Systems Dev		1,062	
	STRUCTURED SYS & SOFTWARE	California	ARMY	RDTE/Other	Defense-Operational	Systems Dev		100	
	SYSTEM SCIENCE APPLICATIONS	California	NAVY	RDTE/Other	Defense-Operational	Systems Dev		128	
	SYSTEMS ENGRG & MGT ASSOC	Virginia	ARMY	RDTE/Other	Defense-Operational	Systems Dev		59	
	SYSTEMS RES APPLICATIONS CORP	Virginia	ARMY	RDTE/Other	Defense-Operational	Systems Dev		100	
	TAU CORPORATION	California	NAVY	RDTE/Other	Defense-Operational	Systems Dev		81	
	TECH INTERNATIONAL INC	Virginia	ARMY	RDTE/Other	Defense-Operational	Systems Dev		85	
	TRUSTED INFORMATION SYSTEMS	Maryland	USAF	RDTE/Other	Defense-Operational	Systems Dev		50	
	TRW INC	California	NAVY	RDTE/Other	Defense-Operational	Systems Dev		26	
	UNISYS DEFENSE SYSTEMS INC	California	NAVY	RDTE/Other	Defense-Operational	Systems Dev		279	
	UNITED STATES DEPT OF COMMERCE	D.C.	NAVY	RDTE/Other	Defense-Operational	Systems Dev		300	
		Maryland	NAVY	RDTE/Other	Defense-Operational	Systems Dev		70-	
	CONTRACTOR TOTAL							150	
	UNITED STATES DEPT OF ENERGY	Illinois	NAVY	RDTE/Other	Defense-Operational	Systems Dev		30	
		New Mexico	NAVY	RDTE/Other	Defense-Operational	Systems Dev		180	
	CONTRACTOR TOTAL							56	
	UNITED TECHNOLOGIES CORP	Conn	NAVY	RDTE/Other	Defense-Operational	Systems Dev		50	
	UNIVERSITY OF CENTRAL FLORIDA	Florida	NAVY	RDTE/Other	Defense-Operational	Systems Dev		106	
	UNIVERSITY OF TENNESSEE	Tennessee	ARMY	RDTE/Other	Defense-Operational	Systems Dev		89	
	US DEPT OF HEALTH & RESOURCES	Maryland	NAVY	RDTE/Other	Defense-Operational	Systems Dev		179	
	VITRO CORPORATION	Maryland	NAVY	RDTE/Other	Defense-Operational	Systems Dev		45	
								80	
								2,444	

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD95	(CONTINUED)				
	VREULS RESEARCH CORPORATION	California	NAVY	RDTE/Other Defense-Operational Systems Dev	85
	WACKENHUT ADV TECH CORP	Virginia	ARMY	RDTE/Other Defense-Operational Systems Dev	276
	WESTINGHOUSE ELECTRIC CORP	Maryland	USAF	RDTE/Other Defense-Operational Systems Dev	122
	XONTECH INC	California	NAVY	RDTE/Other Defense-Operational Systems Dev	150
	R&D TOTAL				179,888
AD96	ADVANCED DECISION SYSTEMS	Virginia	USAF	RDTE/Other Defense-Management & Support	93
	ADVANCED DESIGN CORPORATION	Virginia	ARMY	RDTE/Other Defense-Management & Support	279
	ADVANCED FUEL RESEARCH INC	Conn	USAF	RDTE/Other Defense-Management & Support	50
	ADVANCED MATERIALS INC	Louisiana	USAF	RDTE/Other Defense-Management & Support	53
	ADVANCED RES & APPLICATIONS	California	USAF	RDTE/Other Defense-Management & Support	439
	AERODYNE RESEARCH INC	Mass	USAF	RDTE/Other Defense-Management & Support	88
	AIREX CORPORATION	N.H.	USAF	RDTE/Other Defense-Management & Support	165
	ANALATOM INC	California	USAF	RDTE/Other Defense-Management & Support	190
	ANDRULIS RESEARCH CORP	Virginia	ARMY	RDTE/Other Defense-Management & Support	184
	ANRO ENGINEERING INC	Mass	USAF	RDTE/Other Defense-Management & Support	54
	APPLICATIONS RESFARCH CORP	Ohio	ARMY	RDTE/Other Defense-Management & Support	41-
	APPLIED RESEARCH ASSOC INC	New Mexico	USAF	RDTE/Other Defense-Management & Support	51
	APPLIED TECHNOLOGY ASSOCIATES	New Mexico	ARMY	RDTE/Other Defense-Management & Support	53
	AQUIDNECK MGT ASSOC LTD	Rhode Isld	USAF	RDTE/Other Defense-Management & Support	50
	ARTIFICIAL INTELLIGENCE CORP	Texas	USAF	RDTE/Other Defense-Management & Support	189
	ASSURANCF TECHNOLOGY CORP	Mass	NAVY	RDTE/Other Defense-Management & Support	1,090
	AURORA ASSOCIATES	California	USAF	RDTE/Other Defense-Management & Support	50
	AUTOMATIX INCORPORATED	New York	USAF	RDTE/Other Defense-Management & Support	50
	BENTON CORP	Penn	NAVY	RDTE/Other Defense-Management & Support	977

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD96 (CONTINUED)					
	BERKELEY RESEARCH ASSOCIATES	California	NAVY	RDTE/Other Defense-Management & Support	352
	BETAC CORPORATION	Texas	USAF	RDTE/Other Defense-Management & Support	241
	BIOMAGNETIC TECHNOLOGIES INC	California	USAF	RDTE/Other Defense-Management & Support	125
	BOLT BERANEK & NEWMAN INC	Mass	USAF	RDTE/Other Defense-Management & Support	98
	BOOZ ALLEN & HAMILTON INC	Maryland	ARMY	RDTE/Other Defense-Management & Support	1,097
	BRTRC INC	Virginia	ARMY	RDTE/Other Defense-Management & Support	889
	CALSPAN CORPORATION	New York	USAF	RDTE/Other Defense-Management & Support	451
	CAPE COD RESEARCH INC	Mass	USAF	RDTE/Other Defense-Management & Support	280
	CASCADE MICROTECH INC	Oregon	USAF	RDTE/Other Defense-Management & Support	50
	CERAMPHYSICS INC	Ohio	USAF	RDTE/Other Defense-Management & Support	50
	CHARLES RIVER ANALYTICS INC	Mass	USAF	RDTE/Other Defense-Management & Support	365
	CHEMTECH SYSTEMS INC	Mass	USAF	RDTE/Other Defense-Management & Support	63
	CIM SYSTEMS INC	Texas	USAF	RDTE/Other Defense-Management & Support	46
	CLAMSHILL BUILDINGS INC	California	ARMY	RDTE/Other Defense-Management & Support	4,130
	COCKERHAM JOHN M & ASSOCIATES	Alabama	ARMY	RDTE/Other Defense-Management & Support	452
	COLORADO RESEARCH LABORATORY	Colorado	USAF	RDTE/Other Defense-Management & Support	50
	CONSOLVE INC	Mass	ARMY	RDTE/Other Defense-Management & Support	295
	CONTINENTAL SYSTEMS TECHNOLOGY	Georgia	ARMY	RDTE/Other Defense-Management & Support	47
	CORDRAY INTERNATIONAL CORP	Colorado	USAF	RDTE/Other Defense-Management & Support	75
	COVALENT ASSOCIATES INC	Mass	USAF	RDTE/Other Defense-Management & Support	54
	CREARE INC	N.H.	USAF	RDTE/Other Defense-Management & Support	500
	CREE RESEARCH INC	N Carolina	USAF	RDTE/Other Defense-Management & Support	73
	CRYSTALLUME	California	USAF	RDTE/Other Defense-Management & Support	97
	DAMACKOS INC	Penn	ARMY	RDTE/Other Defense-Management & Support	49

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(AMOUNTS IN THOUS NDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD96 (CONTINUED)					
	DEVELOPMENTAL SCIENCES CORP	California	ARMY	RDTE/Other Defense-Management & Support	565
	DISPLAYTECH INC	Colorado	ARMY	RDTE/Other Defense-Management & Support	57
	DYNA EAST CORPORATION	Penn	USAF	RDTE/Other Defense-Management & Support	273
	E I C LABORATORY INC	Maryland	USAF	RDTE/Other Defense-Management & Support	190
		Mass	USAF	RDTE/Other Defense-Management & Support	60
	CONTRACTOR TOTAL				250
	E TEK DYNAMICS INC	California	USAF	RDTE/Other Defense-Management & Support	167
		Florida	USAF	RDTE/Other Defense-Management & Support	175
	CONTRACTOR TOTAL				342
	EAGLE TECHNOLOGY INC	Florida	USAF	RDTE/Other Defense-Management & Support	113
	EG&G WASHINGTON ANALYTICAL SVC	Maryland	NAVY	RDTE/Other Defense-Management & Support	61
	EIDETICS INTERNATIONAL INC	California	USAF	RDTE/Other Defense-Management & Support	393
	ELECTRO MAGNETIC APPLICATION	Colorado	ARMY	RDTE/Other Defense-Management & Support	49
		New Mexico	ARMY	RDTE/Other Defense-Management & Support	47
	CONTRACTOR TOTAL				96
	ELECTRONICS DEVELOPMENT CORP	Maryland	USAF	RDTE/Other Defense-Management & Support	55
	ENGINEERING RESEARCH &	Tennessee	USAF	RDTE/Other Defense-Management & Support	48
	ES INDUSTRIES	New Jersey	USAF	RDTE/Other Defense-Management & Support	119
	FLOW INDUSTRIES INC	Washington	USAF	RDTE/Other Defense-Management & Support	165
	FLUID JET ASSOCIATES	Ohio	USAF	RDTE/Other Defense-Management & Support	109
	FOSTER MILLER INC	Mass	USAF	RDTE/Other Defense-Management & Support	193
	FRONTIER TECHNOLOGY INC	California	USAF	RDTE/Other Defense-Management & Support	215
		Ohio	USAF	RDTE/Other Defense-Management & Support	54
	CONTRACTOR TOTAL				269

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## PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/ENTRY	DEPT	R&D DESCRIPTION	\$
AD96 (CONTINUED)					
	FUTURE TECHNOLOGIES INC	California	USAF	RDTE/Other Defense-Management & Support	50
	GENERAL ENG & SYS ANALYSIS CO	Maryland	USAF	RDTE/Other Defense-Management & Support	236
	GENERAL IMAGING CORP	Florida	USAF	RDTE/Other Defense-Management & Support	186
	GEO CENTERS INC	Mass	ARMY	RDTE/Other Defense-Management & Support	210-
			NAVY	RDTE/Other Defense-Management & Support	882
	STATE TOTAL				672
	GILLIAM MCKINLEY ENG	California	USAF	RDTE/Other Defense-Management & Support	50
	GLEASON RESEARCH ASSOC INC	Maryland	ARMY	RDTE/Other Defense-Management & Support	101
	HITITE MICROWAVE CORPORATION	Mass	ARMY	RDTE/Other Defense-Management & Support	52
	HORINE ENGINEERS INC	California	ARMY	RDTE/Other Defense-Management & Support	53
	I A P RESEARCH INC	Ohio	USAF	RDTE/Other Defense-Management & Support	500
	IMAGING & SENSING TECHNOLOGY	New York	USAF	RDTE/Other Defense-Management & Support	190
	INNOVATIVE CONFIGURATION INC	California	USAF	RDTE/Other Defense-Management & Support	50
	INSTITUTE FOR DEF ANALYSES	Virginia	ARMY	RDTE/Other Defense-Management & Support	73,468
	INTEGRATED SCIENCES	Oklahoma	ARMY	RDTE/Other Defense-Management & Support	50
	INTERMETRICS INC	California	USAF	RDTE/Other Defense-Management & Support	1,092
	INTERNATIONAL SYSTEMS INC	Virginia	ARMY	RDTE/Other Defense-Management & Support	80
	INTERSPEC INC	Penn	ARMY	RDTE/Other Defense-Management & Support	121
	IRVINE SENSORS CORPORATION	California	USAF	RDTE/Other Defense-Management & Support	430
	IRVINE TECHNOLOGY GROUP INC	California	USAF	RDTE/Other Defense-Management & Support	201
	JOHNS HOPKINS UNIVERSITY	Maryland	NAVY	RDTE/Other Defense-Management & Support	215
	K M S FUSION INC	Michigan	USAF	RDTE/Other Defense-Management & Support	88
	KAHN HARRY J ASSOCIATES INC	Maryland	NAVY	RDTE/Other Defense-Management & Support	284
	KETRON INC	Penn	NAVY	RDTE/Other Defense-Management & Support	50
	KEYSTONE COMPUTER ASSOCIATES	Penn	NAVY	RDTE/Other Defense-Management & Support	40

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AD96 (CONTINUED)					
	KLEIN ASSOCIATES INC	Ohio	USAF	RDTE/Other Defense-Management & Support	\$ 263
	KNOWLEDGE BASED SYSTEM	Texas	USAF	RDTE/Other Defense-Management & Support	300
	KSA TECHNICAL	Ohio	USAF	RDTE/Other Defense-Management & Support	26
	KTAADN INC	Mass	USAF	RDTE/Other Defense-Management & Support	50
	LASERGENICS CORPORATION	California	USAF	RDTE/Other Defense-Management & Support	49
	LITHIUM ENERGY ASSOC INC	Mass	USAF	RDTE/Other Defense-Management & Support	164
	LOGICON INC	Ohio	USAF	RDTE/Other Defense-Management & Support	70
	M T L SYSTEMS INC	Ohio	USAF	RDTE/Other Defense-Management & Support	100
	MADEN TECH CONSULTING INC	Virginia	ARMY	RDTE/Other Defense-Management & Support	4,729
	MATLS RES & COMPUTER	Arizona	NAVY	RDTE/Other Defense-Management & Support	150
	MDA ENGINEERING	Texas	USAF	RDTE/Other Defense-Management & Support	123
	MEMBRANE TECHNOLOGY & RESEARCH	California	USAF	RDTE/Other Defense-Management & Support	70
	MERIDIAN CORPORATION	Virginia	ARMY	RDTE/Other Defense-Management & Support	1,221
	METROLASER	California	USAF	RDTE/Other Defense-Management & Support	50
	MICROSCOPY RESEARCH LABS	New Jersey	NAVY	RDTE/Other Defense-Management & Support	375
	NIELSEN ENGINEERING & RES	California	NAVY	RDTE/Other Defense-Management & Support	32
		USAF	USAF	RDTE/Other Defense-Management & Support	236
	STATE TOTAL				268
	NIGHT VISION CORPORATION	Illinois	USAF	RDTE/Other Defense-Management & Support	500
	OPTIVISION INC	California	USAF	RDTE/Other Defense-Management & Support	53
	ORTEL CORPORATION	California	ARMY	RDTE/Other Defense-Management & Support	130
	PHASEX CORPORATION	Mass	USAF	RDTE/Other Defense-Management & Support	70
	PHYSICAL OPTICS CORPORATION	California	USAF	RDTE/Other Defense-Management & Support	250
	PHYSICAL SCIENCES INC	Mass	USAF	RDTE/Other Defense-Management & Support	239

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD96 (CONTINUED)					
	PROGRESSIVE LRNG UNVSL MGMT	Maryland	USAF	RDTE/Other Defense-Management & Support	180
	PWR INC	Hawaii	NAVY	RDTE/Other Defense-Management & Support	48
	QUADRA ENGINEERING INC	Mass	NAVY	RDTE/Other Defense-Management & Support	250
	QUANTEX CORPORATION	Maryland	USAF	RDTE/Other Defense-Management & Support	100
	QUANTUM ELECTRONICS TECHNOLOGY	New York	USAF	RDTE/Other Defense-Management & Support	273
	QUESTECH INC	Virginia	NAVY	RDTE/Other Defense-Management & Support	460
	RADIX SYSTEMS INC	Maryland	NAVY	RDTE/Other Defense-Management & Support	279
	RAND CORPORATION	California	ARMY	RDTE/Other Defense-Management & Support	51,428
	REAL TIME INTELLIGENT	Mass	USAF	RDTE/Other Defense-Management & Support	190
	REMECH INC	Alabama	USAF	RDTE/Other Defense-Management & Support	52
	RESEARCH OPPORTUNITIES INC	California	NAVY	RDTE/Other Defense-Management & Support	156
	RESEARCH PARTNERSHIP	California	USAF	RDTE/Other Defense-Management & Support	66
	RESOURCE TECHNOLOGIES GROUP	W Virginia	USAF	RDTE/Other Defense-Management & Support	125
	ROCHESTER PHOTONICS CORP	New York	ARMY	RDTE/Other Defense-Management & Support	50
	ROCKWELL INTERNATIONAL CORP	California	USAF	RDTE/Other Defense-Management & Support	60
	SABBAGH ASSOCIATES INC	Indiana	ARMY	RDTE/Other Defense-Management & Support	103
	SAG CORPORATION	Virginia	ARMY	RDTE/Other Defense-Management & Support	50
	SARCOS INC	Utah	ARMY	RDTE/Other Defense-Management & Support	50
	SAVANNAH RESEARCH ASSOC	Virginia	USAF	RDTE/Other Defense-Management & Support	50
	SCHMIDT INSTRUMENTS	Texas	NAVY	RDTE/Other Defense-Management & Support	50
	SCIENCE & APPL TECH	California	USAF	RDTE/Other Defense-Management & Support	59
	SCIENCE APPLICATIONS INTL CORP	California	ARMY	RDTE/Other Defense-Management & Support	2,244
	CONTRACTOR TOTAL	Virginia	ARMY	RDTE/Other Defense-Management & Support	200
					2,444

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD96 (CONTINUED)					
	SCITEQ ELECTRONICS INC	California	ARMY	RDTE/Other Defense-Management & Support	67
	SEARCH TECHNOLOGY INC	Georgia	USAF	RDTE/Other Defense-Management & Support	50
	SEMCOR INC	New Jersey	NAVY	RDTE/Other Defense-Management & Support	831
	SENTEL CORPORATION	Florida	USAF	RDTE/Other Defense-Management & Support	1,958
	SILHOUETTE TECHNOLOGY INC	New Jersey	USAF	RDTE/Other Defense-Management & Support	200
	SONALYSTS INC	Conn	NAVY	RDTE/Other Defense-Management & Support	140
	SPACE TECH CORP	Colorado	USAF	RDTE/Other Defense-Management & Support	49
	SPARTA INC	California	USAF	RDTE/Other Defense-Management & Support	50
	SRI INTERNATIONAL	California	NAVY	RDTE/Other Defense-Management & Support	2,950
	SRS TECHNOLOGIES	Alabama	USAF	RDTE/Other Defense-Management & Support	50
	STRESS TECH INC	New York	USAF	RDTE/Other Defense-Management & Support	430
	STRUCTURED SYS & SOFTWARE	California	ARMY	RDTE/Other Defense-Management & Support	50
	SUPERCONDUCTOR TECHNOLOGIES	California	USAF	RDTE/Other Defense-Management & Support	119
	SYSCON CORPORATION	Virginia	NAVY	RDTE/Other Defense-Management & Support	117-
	SYSTEM PLANNING CORPORATION	Virginia	ARMY	RDTE/Other Defense-Management & Support	45
	SYSTEMS ENGRG & MGT ASSOC	Virginia	ARMY	RDTE/Other Defense-Management & Support	116
	SYSTRAN CORP	Ohio	USAF	RDTE/Other Defense-Management & Support	52
	TECHNOLOGY SYSTEMS INC	Maine	USAF	RDTE/Other Defense-Management & Support	87
	TETRA CORPORATION	New Mexico	ARMY	RDTE/Other Defense-Management & Support	51
	TOYON RESEARCH CORP	California	USAF	RDTE/Other Defense-Management & Support	50
	TXS INC	Texas	USAF	RDTE/Other Defense-Management & Support	160
	UCE INC	Conn	ARMY	RDTE/Other Defense-Management & Support	40
	ULTRAMET	California	NAVY	RDTE/Other Defense-Management & Support	49
		USAF	RDTE/Other Defense-Management & Support	49	
	STATE TOTAL				98

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD96	(CONTINUED)				
	UNISYS CORPORATION	Virginia	NAVY	RDTE/Other Defense-Management & Support	170
	UNIVERSAL ENERGY SYSTEMS INC	Ohio	USAF	RDTE/Other Defense-Management & Support	102
	UNIVERSAL SENSORS INC	Louisiana	ARMY	RDTE/Other Defense-Management & Support	50
	UNIVERSITY OF FLORIDA	Florida	NAVY	RDTE/Other Defense-Management & Support	130
	UNIVERSITY OF ROCHESTER	New York	USAF	RDTE/Other Defense-Management & Support	250
	VECTOR RESEARCH INC	Michigan	USAF	RDTE/Other Defense-Management & Support	51
	VISTA TECHNOLOGIES INC	Illinois	USAF	RDTE/Other Defense-Management & Support	253
	WACKENHUT ADV TECH CORP	Virginia	ARMY	RDTE/Other Defense-Management & Support	138
	WEST COAST RESEARCH CORP	California	USAF	RDTE/Other Defense-Management & Support	50
	XACTON CORPORATION	Arizona	USAF	RDTE/Other Defense-Management & Support	64
	XONTECH INC	California	USAF	RDTE/Other Defense-Management & Support	54
	ZALLEN INTERNATIONAL	New Mexico	USAF	RDTE/Other Defense-Management & Support	50
	R&D TOTAL				170,021
AE21	BATTELLE MEMORIAL INSTITUTE	Ohio	USAF	RDTE/Product or Srvc Improvement-Basic Res	50
	ENGINEERING & ECONOMICS RES	Virginia	USAF	RDTE/Product or Srvc Improvement-Basic Res	218
	MANAGEMENT CONSULTING & RES	Virginia	USAF	RDTE/Product or Srvc Improvement-Basic Res	1,026
	TECOLOTE RESEARCH INC	California	USAF	RDTE/Product or Srvc Improvement-Basic Res	4,896
	R&D TOTAL				6,190
AE22	TECHNICAL ENVIRONMENT CONTROL	Maryland	ARMY	RDTE/Product or Srvc Improvement-Explor De	128
AE23	RAINHART CO	Louisiana	USAF	RDTE/Product or Srvc Improvement-Advanced	49
AE25	EDISON INDUSTRIAL SYSTEMS CTR	Ohio	USAF	RDTE/Product or Srvc Improvement-Op System	58
AE31	LOCKHEED MISSILES & SPACE CO	California	ARMY	RDTE/Manufacturing Technology-Basic Resear	340
AE33	UNIVERSITY OF PITTSBURGH	Penn	NAVY	RDTE/Manufacturing Technology-Advanced Dev	19,896
AE34	COMPUTER SCIENCES CORPORATION	California	NAVY	RDTE/Manufacturing Technology-Engr Develop	696
	HUGHES AIRCRAFT COMPANY	California	ARMY	RDTE/Manufacturing Technology-Engr Develop	195

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
R&D TOTAL					
AE35	ALLIED SIGNAL INC	Arizona	USAF	RDTE/Manufacturing Technology-Op Systems D	891
	ANALYTIC SCIENCE CORP THE	Mass	USAF	RDTE/Manufacturing Technology-Op Systems D	100
	APPLIED SOLAR ENERGY CORP	California	USAF	RDIE/Manufacturing Technology-Op Systems D	923
	ATLANTIC RESEARCH CORPORATION	Virginia	USAF	RDTE/Manufacturing Technology-Op Systems D	638
	AUTOMATED PRECISION INC	Maryland	USAF	RDTE/Manufacturing Technology-Op Systems D	245
	AVCO CORPORATION	Ohio	USAF	RDTE/Manufacturing Technology-Op Systems D	105
	BELL HELICOPTER TEXTRON INC	Texas	USAF	RDTE/Manufacturing Technology-Op Systems D	1,335
	BOEING COMPANY THE	Washington	USAF	RDTE/Manufacturing Technology-Op Systems D	3,000
	CENTRAL STATE UNIVERSITY	Ohio	USAF	RDTE/Manufacturing Technology-Op Systems D	1,090
	CHESAPEAKE LASER SYSTEMS INC	Maryland	USAF	RDTE/Manufacturing Technology-Op Systems D	267
	CINCINNATI MILACRON MKTG CO	Ohio	USAF	RDTE/Manufacturing Technology-Op Systems D	306
	CLEMSON UNIVERSITY	S Carolina	DLA	RDTE/Manufacturing Technology-Op Systems D	233
	CORP FOR OPEN SYSTEM	Virginia	USAF	RDTE/Manufacturing Technology-Op Systems D	1,060
	DRAVO CORPORATION	Penn	USAF	RDTE/Manufacturing Technology-Op Systems D	125
	EAGLE PICHER INDUSTRIES INC	Missouri	USAF	RDTE/Manufacturing Technology-Op Systems D	2,400
	EXTRUDE HONE CORPORATION	Penn	USAF	RDTE/Manufacturing Technology-Op Systems D	177-
	FASHION INST OF TECHNOLOGY	New York	DLA	RDTE/Manufacturing Technology-Op Systems D	345
	FASTMAN INC	Penn	USAF	RDTE/Manufacturing Technology-Op Systems D	41
	FLORIDA INTERNATIONAL	Florida	USAF	RDTE/Manufacturing Technology-Op Systems D	316
	GENERAL ATOMICS	California	USAF	RDTE/Manufacturing Technology-Op Systems D	38
	GENERAL DYNAMICS CORPORATION	California	USAF	RDTE/Manufacturing Technology-Op Systems D	4,069
	GENERAL ELECTRIC COMPANY	Ohio	USAF	RDTE/Manufacturing Technology-Op Systems D	400
	GEORGIA TECH RESEARCH CORP	Georgia	DLA	RDTE/Manufacturing Technology-Op Systems D	2,417
	HUGHES AIRCRAFT COMPANY	California	USAF	RDTE/Manufacturing Technology-Op Systems D	842
					4,713

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AE35 (CONTINUED)					
	HUGHES DANBURY OPTICAL SYSTEMS	Conn	USAF	RDTE/Manufacturing Technology-Op Systems D	70
	INDUSTRIAL TECHNOLOGY INSTITUTE	Michigan	USAF	RDTE/Manufacturing Technology-Op Systems D	312
	INTERMETRICS INC	Virginia	USAF	RDTE/Manufacturing Technology-Op Systems D	100
	LAWRENCE ASSOCIATES INC	Ohio	USAF	RDTE/Manufacturing Technology-Op Systems D	20,517
	LITTON SYSTEMS INC	California	USAF	RDTE/Manufacturing Technology-Op Systems D	250
	LOCKHEED CORPORATION	California	USAF	RDTE/Manufacturing Technology-Op Systems D	1,345
	MANUFACTURING LABORATORIES	Florida	USAF	RDTE/Manufacturing Technology-Op Systems D	284
	MARTIN MARIETTA CORPORATION	Colorado	USAF	RDTE/Manufacturing Technology-Op Systems D	7,250
	MCDONNELL AIRCRAFT COMPANY	Missouri	USAF	RDTE/Manufacturing Technology-Op Systems D	400
	MCDONNELL DOUGLAS MSL SYS CO	Missouri	USAF	RDTE/Manufacturing Technology-Op Systems D	415
	MECHANICAL TECHNOLOGY INC	New York	USAF	RDTE/Manufacturing Technology-Op Systems D	713
	METCUT RESEARCH ASSOCIATES	Ohio	USAF	RDTE/Manufacturing Technology-Op Systems D	69
	MICROELECTRONICS	Texas	USAF	RDTE/Manufacturing Technology-Op Systems D	800
	MINNESOTA MINING & MFG CO	Minnesota	USAF	RDTE/Manufacturing Technology-Op Systems D	1,200
	NATIONAL SEMICONDUCTOR CORP	California	USAF	RDTE/Manufacturing Technology-Op Systems D	225
	NORTH CAROLINA A&T UNIV	N Carolina	USAF	RDTE/Manufacturing Technology-Op Systems D	144
	NORTHROP CORPORATION	California	USAF	RDTE/Manufacturing Technology-Op Systems D	4,748
		Illinois	USAF	RDTE/Manufacturing Technology-Op Systems D	1,600
	CONTRACTOR TOTAL				6,348
	ONTEK CORPORATION	California	USAF	RDTE/Manufacturing Technology-Op Systems D	300
	R J O ENTERPRISES INC	Mass	USAF	RDTE/Manufacturing Technology-Op Systems D	233
		Ohio	USAF	RDTE/Manufacturing Technology-Op Systems D	150
	CONTRACTOR TOTAL				383
	ROCKWELL INTERNATIONAL CORP	California	USAF	RDTE/Manufacturing Technology-Op Systems D	601

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AE35 (CONTINUED)					
	RUTGERS THE STATE UNIVERSITY	New Jersey	DLA	RDTE/Manufacturing Technology-Op Systems D	
	SCIENCE APPLICATIONS INTL CORP	California	USAF	RDTE/Manufacturing Technology-Op Systems D	2,045
	SOFTTECH INC	Ohio	USAF	RDTE/Manufacturing Technology-Op Systems D	3,152
	SOUTH CAROLINA STATE OF	S Carolina	USAF	RDTE/Manufacturing Technology-Op Systems D	665
	SOUTHWEST RESEARCH INSTITUTE	Texas	USAF	RDTE/Manufacturing Technology-Op Systems D	195
	TELEDYNE INDUSTRIES INC	Ohio	USAF	RDTE/Manufacturing Technology-Op Systems D	563
	TEXAS INSTRUMENTS INC	Mass	USAF	RDTE/Manufacturing Technology-Op Systems D	192
		Texas	USAF	RDTE/Manufacturing Technology-Op Systems D	16,420
	CONTRACTOR TOTAL				16,612
	TEXAS INSTRUMENTS WESTINGHOUSE JV	Texas	USAF	RDTE/Manufacturing Technology-Op Systems D	3,685
	TRW INC	California	USAF	RDTE/Manufacturing Technology-Op Systems D	1,044
	UNITED TECHNOLOGIES CORP	Florida	USAF	RDTE/Manufacturing Technology-Op Systems D	4,041
	UNIVERSAL ENERGY SYSTEMS INC	Ohio	USAF	RDTE/Manufacturing Technology-Op Systems D	1,749
	UNIVERSITY OF MICHIGAN	Michigan	USAF	RDTE/Manufacturing Technology-Op Systems D	93
	USB I CO	Alabama	USAF	RDTE/Manufacturing Technology-Op Systems D	700
	WESTINGHOUSE ELECTRIC CORP	Maryland	USAF	RDTE/Manufacturing Technology-Op Systems D	500
		Penn	USAF	RDTE/Manufacturing Technology-Op Systems D	305
	CONTRACTOR TOTAL				805
	WILLIAMS INTERNATIONAL CORP	Michigan	USAF	RDTE/Manufacturing Technology-Op Systems D	328
	R&D TOTAL				102,234
	AE36 MSNW INC	California	USAF	RDTE/Manufacturing Technology-Mgmt & Suppo	321
	SYSCON CORPORATION	D.C.	NAVY	RDTE/Manufacturing Technology-Mgmt & Suppo	1,456
	R&D TOTAL				1,777
	AE92 WEFA INC	Penn	ARMY	RDTE/Other Econ Growth&Productivity-Explor	91

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AF11	LA SALLE UNIVERSITY	Penn	NAVY	RDTE/Education-Basic Research	77
	PRINCETON UNIVERSITY	New Jersey	ARMY	RDTE/Education-Basic Research	89
	R&D TOTAL				166
AF12	SCIENCE APPLICATIONS INTL CORP	California	ARMY	RDTE/Education-Exploratory Development	435
AF15	UNIVERSITY OF DENVER	Colorado	NAVY	RDTE/Education-Operational Systems Develop	311
AF16	MCGOWEN SA	PANAMA	ARMY	RDTE/Education-Management & Support	1,122
AG12	INSTITUTE OF GAS TECHNOLOGY	Illinois	ARMY	RDTE/Energy - Coal - Exploratory Developme	131
AG21	UNIVERSITY OF PITTSBURGH	Penn	USAF	RDTE/Energy - Gas - Basic Research	42
AG22	INSTITUTE OF GAS TECHNOLOGY	Illinois	ARMY	RDTE/Energy - Gas - Exploratory Developmen	28
AG31	WELCH & HOWELL DRILLING INC	California	NAVY	RDTE/Energy - Geothermal - Basic Research	473
AG72	ARCHITECTURAL ENERGY CORP	Colorado	ARMY	RDTE/Energy - Solar - Exploratory Developm	60
	UNIVERSITY OF ILLINOIS	Illinois	ARMY	RDTE/Energy - Solar - Exploratory Developm	558
	R&D TOTAL				618
AG92	INSTITUTE OF GAS TECHNOLOGY	Illinois	ARMY	RDTE/Other Energy - Exploratory Developmen	255
	SCIENCE APPLICATIONS INTL CORP	Virginia	ARMY	RDTE/Other Energy - Exploratory Developmen	207
	R&D TOTAL				462
AG93	US DOE	Tennessee	NAVY	RDTE/Other Energy - Advanced Development	40
AH11	CLEMSON UNIVERSITY	S Carolina	NAVY	RDTE/Pollution Cntl & Abatement-Basic Rese	151
	CORNELL UNIVERSITY	New York	USAF	RDTE/Pollution Cntl & Abatement-Basic Rese	195
	R&D TOTAL				346
AH12	BAKER HUGHES INCORPORATED	Utah	NAVY	RDTE/Pollution Cntl & Abatement-Explorator	53
	CLARKSON UNIVERSITY	New York	USAF	RDTE/Pollution Cntl & Abatement-Explorator	36
	COE TRUMAN TECHNOLOGIES INC	Illinois	ARMY	RDTE/Pollution Cntl & Abatement-Explorator	1,017
	GENERAL ELECTRIC COMPANY	Florida	USAF	RDTE/Pollution Cntl & Abatement-Explorator	408
	GEORGIA TECH RESEARCH CORP	Georgia	ARMY	RDTE/Pollution Cntl & Abatement-Explorator	78

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AH12 (CONTINUED)					
	NEW MEXICO STATE OF	New Mexico	ARMY	RDTE/Pollution Cntl & Abatement-Explorer	420
	SONOMA RESEARCH CO	California	NAVY	RDTE/Pollution Cntl & Abatement-Explorer	36
	SYMBIOTECH INCORPORATED	Conn	NAVY	RDTE/Pollution Cntl & Abatement-Explorer	329
	UNIVERSITY OF CINCINNATI	Ohio	ARMY	RDTE/Pollution Cntl & Abatement-Explorer	627
	UNIVERSITY OF ILLINOIS	Illinois	ARMY	RDTE/Pollution Cntl & Abatement-Explorer	1,459
	R&D TOTAL				4,463
	AH16 SANITECH INC	Ohio	USAF	RDTE/Pollution Cntl & Abatement-Mgmt & Sup	118
	AH21 BATTELLE MEMORIAL INSTITUTE	Ohio	USAF	RDTE/Air Pollution-Basic Research	900
	AH26 FOSTER MILLER INC	Mass	USAF	RDTE/Air Pollution-Management & Support	273
	WINTEC INC	Florida	USAF	RDTE/Air Pollution-Management & Support	190
	R&D TOTAL				463
	AH31 MICHIGAN TECHNICAL UNIVERSITY	Michigan	USAF	RDTE/Water Pollution-Basic Research	88
	SRI INTERNATIONAL	California	USAF	RDTE/Water Pollution-Basic Research	215
	R&D TOTAL				303
	AH33 LYNNTECH INC	Texas	USAF	RDTE/Water Pollution-Advanced Development	50
	AH46 A & L SHATTO INC	Maryland	ARMY	RDTE/Noise Pollution-Management & Support	54
	AH91 ELECTROSYNTHESIS COMPANY INC	New York	USAF	RDTE/Other Environmental Protection-Basic	52
	FOSTER MILLER INC	Mass	USAF	RDTE/Other Environmental Protection-Basic	59
	GENERAL ATOMICS	California	USAF	RDTE/Other Environmental Protection-Basic	425
	MC CLENAHAN & HOPKINS ASSOC	California	NAVY	RDTE/Other Environmental Protection-Basic	268
	N G S ASSOCIATES INC	Mass	USAF	RDTE/Other Environmental Protection-Basic	32
	R&D TOTAL				836
	AH92 ADVANCED SCIENCES INC	Florida	USAF	RDTE/Other Environmental Protection-Explor	638
	INTERNATIONAL TECHNOLOGY CORP	Maryland	ARMY	RDTE/Other Environmental Protection-Explor	241

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AH92 (CONTINUED)					
	LOCKHEED MISSILES & SPACE CO	California	USAF	RDTE/Other Environmental Protection-Explor	100
	UNIVERSITY OF CALIFORNIA	California	USAF	RDTE/Other Environmental Protection-Explor	315
	WESTON ROY F INC	Penn	ARMY	RDTE/Other Environmental Protection-Explor	378
	R&D TOTAL				1,672
	AH94 BIOTRONICS TECHNOLOGIES INC	Wisconsin	USAF	RDTE/Other Environmental Protection-Engr D	227
	TETRA TECH INC	California	USAF	RDTE/Other Environmental Protection-Engr D	150-
	R&D TOTAL				77
	AH95 BARTON TECHNOLOGIES INC	Georgia	USAF	RDTE/Other Environmental Protection-Op Sys	43
	VIDEO INDUSTRIAL SERVICE INC	Georgia	USAF	RDTE/Other Environmental Protection-Op Sys	74
	R&D TOTAL				117
	AH96 ENVIROGEN INC	New Jersey	USAF	RDTE/Other Environmental Protection-Mgmt &	50
	ENVIROSPACE SOFTWARE	Florida	USAF	RDTE/Other Environmental Protection-Mgmt &	50
	INRAD INC	New Jersey	USAF	RDTE/Other Environmental Protection-Mgmt &	51
	M L ENERGIA INC	New Jersey	USAF	RDTE/Other Environmental Protection-Mgmt &	50
	NATIONAL DEFENSE ENVMTL CORP	Penn	ARMY	RDTE/Other Environmental Protection-Mgmt &	2,500
	SCHMIDT INSTRUMENTS	Texas	USAF	RDTE/Other Environmental Protection-Mgmt &	53
	R&D TOTAL				2,754
	AJ11 ADVANCED FUEL RESEARCH INC	Conn	ARMY	RDTE/Physical Sciences - Basic Research	61
	AEDAR CORPORATION	Maryland	USAF	RDTE/Physical Sciences - Basic Research	58
	AERODYNE RESEARCH INC	Mass	USAF	RDTE/Physical Sciences - Basic Research	45
	ALABAMA A & M UNIVERSITY	Alabama	USAF	RDTE/Physical Sciences - Basic Research	176
	ALLIED SIGNAL INC	Maryland	USAF	RDTE/Physical Sciences - Basic Research	189
	ALPHATECH INC	Mass	USAF	RDTE/Physical Sciences - Basic Research	170
	AMPTK INC	Mass	USAF	RDTE/Physical Sciences - Basic Research	375

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION		\$
AJ11 (CONTINUED)						
	AMRON CORPORATION	Virginia	NAVY	RDTE/Physical Sciences - Basic Research		25
	ANRO ENGINEERING INC	Mass	USAF	RDTE/Physical Sciences - Basic Research		81
	ANTECH SERVICES INC	California	ARMY	RDTE/Physical Sciences - Basic Research		50
	APPLIED ANALYSIS INC	Mass	USAF	RDTE/Physical Sciences - Basic Research		239
	APPLIED RESEARCH ASSOC INC	New Mexico	USAF	RDTE/Physical Sciences - Basic Research		134
	ARCO POWER TECHNOLOGY	D.C.	USAF	RDTE/Physical Sciences - Basic Research		701
	ARCON CORPORATION	Mass	USAF	RDTE/Physical Sciences - Basic Research		215
	ASTRON CORPORATION	Virginia	USAF	RDTE/Physical Sciences - Basic Research		195
	ATLANTIC AEROSPACE ELECTRONICS	Maryland	USAF	RDTE/Physical Sciences - Basic Research		673
	ATLANTIC RESEARCH CORPORATION	Maryland	USAF	RDTE/Physical Sciences - Basic Research		300
		Virginia	USAF	RDTE/Physical Sciences - Basic Research		71
	CONTRACTOR TOTAL					371
	AWARE INC	Mass	USAF	RDTE/Physical Sciences - Basic Research		97
	BDM INTERNATIONAL INC	Virginia	USAF	RDTE/Physical Sciences - Basic Research		32 -
	BELL COMMUNICATIONS RESEARCH	New Jersey	USAF	RDTE/Physical Sciences - Basic Research		239
	BERKELEY APPLIED SCENCES ENGRG	California	USAF	RDTE/Physical Sciences - Basic Research		148
	BOEING COMPANY THE	Washington	USAF	RDTE/Physical Sciences - Basic Research		4,592
	BOSTON COLLEGE TRUSTEES OF	Mass	USAF	RDTE/Physical Sciences - Basic Research		2,063
	BOSTON UNIVERSITY	Mass	USAF	RDTE/Physical Sciences - Basic Research		831
	BROADCOM INC	New Jersey	USAF	RDTE/Physical Sciences - Basic Research		81
	CAELUM RESEARCH CORP	Maryland	USAF	RDTE/Physical Sciences - Basic Research		129
	CALIFORNIA URBAN INDIAN HEALTH	California	USAF	RDTE/Physical Sciences - Basic Research		41
	CALSPAN CORPORATION	New York	USAF	RDTE/Physical Sciences - Basic Research		1,359
	CAMBRIDGE HYDRO DYNAMICS INC	New Jersey	USAF	RDTE/Physical Sciences - Basic Research		69

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AJ11 (CONTINUED)					
	CANADIAN COMMERCIAL CORP	CANADA	ARMY	RDTE/Physical Sciences - Basic Research	50
	CANETICS INC	California	USAF	RDTE/Physical Sciences - Basic Research	162
	CATHOLIC UNIVERSITY OF AMERICA	D.C.	NAVY	RDTE/Physical Sciences - Basic Research	48
	CITY UNIVERSITY OF NEW YORK	New York	USAF	RDTE/Physical Sciences - Basic Research	858
	CLARK ATLANTA UNIVERSITY	Georgia	USAF	RDTE/Physical Sciences - Basic Research	47
	CLEMSON UNIVERSITY	S Carolina	USAF	RDTE/Physical Sciences - Basic Research	48
	COGNITECH INC	California	USAF	RDTE/Physical Sciences - Basic Research	409
	COLORADO STATE UNIVERSITY	Colorado	USAF	RDTE/Physical Sciences - Basic Research	154
	COLUMBIA UNIVERSITY	New York	NAVY USAF	RDTE/Physical Sciences - Basic Research RDTE/Physical Sciences - Basic Research	100 631
	STATE TOTAL				731
	COMFOCUS CORP	California	USAF	RDTE/Physical Sciences - Basic Research	47
	COMPUTATIONAL MECHANICS CORP	Texas	USAF	RDTE/Physical Sciences - Basic Research	163
	CONSORTIO PER LINCUMENTO STUD	ITALY	ARMY	RDTE/Physical Sciences - Basic Research	33
	CORNELL UNIVERSITY	New York	USAF	RDTE/Physical Sciences - Basic Research	708
	CRYSTAL SYSTEMS INC	Mass	USAF	RDTE/Physical Sciences - Basic Research	47
	DARTMOUTH COLLEGE	N.H.	USAF	RDTE/Physical Sciences - Basic Research	60
	DATA SECURITY INC.	Mass	USAF	RDTE/Physical Sciences - Basic Research	47
	DAVID SARNOFF RESEARCH CENTER	New Jersey	USAF	RDTE/Physical Sciences - Basic Research	285
	DEXTER CORPORATION	California	USAF	RDTE/Physical Sciences - Basic Research	30
	DIGITAL INSTRUMENTS INC	California	USAF	RDTE/Physical Sciences - Basic Research	53
	DUKE UNIVERSITY	N Carolina	USAF	RDTE/Physical Sciences - Basic Research	60
	E E G SYSTEMS LABORATORY INC	California	USAF	RDTE/Physical Sciences - Basic Research	162
	E I C LABORATORY INC	Mass	USAF	RDTE/Physical Sciences - Basic Research	150

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AJ11 (CONTINUED)

ELECTRONIC MATERIALS ENGRNG	California	USAF	RDTE/Physical Sciences - Basic Research	\$	55
ENSCO INC	Virginia	USAF	RDTE/Physical Sciences - Basic Research		465
EPIR LTD	Illinois	USAF	RDTE/Physical Sciences - Basic Research		437
EPITAXX INC	New Jersey	USAF	RDTE/Physical Sciences - Basic Research		126
EVI INCORPORATED	Maryland	ARMY	RDTE/Physical Sciences - Basic Research		53
FALCON COMMUNICATIONS CORP	Colorado	USAF	RDTE/Physical Sciences - Basic Research		53
FLORIDA A & M UNIVERSITY	Florida	USAF	RDTE/Physical Sciences - Basic Research		277
GENERAL ATOMICS	California	USAF	RDTE/Physical Sciences - Basic Research		888
GENERAL ELECTRIC COMPANY	New Jersey	USAF	RDTE/Physical Sciences - Basic Research		130
	New York	USAF	RDTE/Physical Sciences - Basic Research		592
	Ohio	USAF	RDTE/Physical Sciences - Basic Research		114
CONTRACTOR TOTAL					836
GENERAL RESEARCH CORPORATION	California	USAF	RDTE/Physical Sciences - Basic Research		256
	Mass	USAF	RDTE/Physical Sciences - Basic Research		55
CONTRACTOR TOTAL					311
GEO CENTERS INC	D.C.	NAVY	RDTE/Physical Sciences - Basic Research		452
GEORGE MASON UNIVERSITY	Virginia	USAF	RDTE/Physical Sciences - Basic Research		32
GRUMMAN AEROSPACE CORPORATION	New York	USAF	RDTE/Physical Sciences - Basic Research		99
HARRIS CORPORATION	Florida	USAF	RDTE/Physical Sciences - Basic Research		180
HARVARD UNIVERSITY	Mass	USAF	RDTE/Physical Sciences - Basic Research		63
HONEYWELL INC	Minnesota	USAF	RDTE/Physical Sciences - Basic Research		38
HORIZONS TECHNOLOGY INC	Maryland	USAF	RDTE/Physical Sciences - Basic Research		46
HOWARD UNIVERSITY	D.C.	USAF	RDTE/Physical Sciences - Basic Research		525
HUGHES AIRCRAFT COMPANY	California	NAVY	RDTE/Physical Sciences - Basic Research		157

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	USAF	RDTE/Physical Sciences - Basic Research	\$
AJ11 (CONTINUED)					STATE TOTAL		
	IBIS TECHNOLOGY CORP	Mass	USAF	RDTE/Physical Sciences - Basic Research			550
	ILLINOIS SUPERCONDUCTOR CORP	Illinois	USAF	RDTE/Physical Sciences - Basic Research			707
	INTEGRATED SYSTEMS INC	California	USAF	RDTE/Physical Sciences - Basic Research			339
	INTERSCIENCE INC	New York	ARMY	RDTE/Physical Sciences - Basic Research			41
	INTERSPEC INC	Penn	USAF	RDTE/Physical Sciences - Basic Research			3,939
	JACKSON STATE UNIVERSITY	Miss	USAF	RDTE/Physical Sciences - Basic Research			48
	KEO CONSULTANTS	Mass	USAF	RDTE/Physical Sciences - Basic Research			175
	KESTREL INSTITUTE	California	USAF	RDTE/Physical Sciences - Basic Research			75
	KOPIN CORPORATION	Mass	USAF	RDTE/Physical Sciences - Basic Research			328
	LIGHTWAVE ELECTRONICS CORP	California	USAF	RDTE/Physical Sciences - Basic Research			35
	LOCKHEED MISSILES & SPACE CO	California	USAF	RDTE/Physical Sciences - Basic Research			149
	LOUISIANA STATE UNIV SYSTEM	Louisiana	USAF	RDTE/Physical Sciences - Basic Research			165
	MAN LABS INC	Mass	USAF	RDTE/Physical Sciences - Basic Research			286
	MARTIN MARIETTA CORPORATION	Maryland	USAF	RDTE/Physical Sciences - Basic Research			150
	MARTIN SYSTEMS INC	Mass	USAF	RDTE/Physical Sciences - Basic Research			82
	MASSACHSTTS INST OF TECHNOLOGY	Mass	USAF	RDTE/Physical Sciences - Basic Research			202
	MATIS INC	Georgia	USAF	RDTE/Physical Sciences - Basic Research			48
	MAYFLOWER COMMUNICATION CORP	Mass	USAF	RDTE/Physical Sciences - Basic Research			544
	MCDONNELL DOUGLAS CORPORATION	Missouri	USAF	RDTE/Physical Sciences - Basic Research			54
	MCDONNELL DOUGLAS SPACE SYS CO	California	USAF	RDTE/Physical Sciences - Basic Research			155
	MEHARRY MEDICAL COLLEGE	N Carolina	USAF	RDTE/Physical Sciences - Basic Research			129
	MICHIGAN STATE UNIVERSITY	Michigan	ARMY	RDTE/Physical Sciences - Basic Research			27
							308
							283

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AJ11 (CONTINUED)					
	MICROEXPERT SYSTEMS INC	California	NAVY	RDTE/Physical Sciences - Basic Research	50
	MINNESOTA MINING & MFG CO	Minnesota	USAF	RDTE/Physical Sciences - Basic Research	38
	MISSION RESEARCH CORPORATION	California	USAF	RDTE/Physical Sciences - Basic Research	156
		N.H.	USAF	RDTE/Physical Sciences - Basic Research	80
	CONTRACTOR TOTAL				236
	MISSISSIPPI STATE UNIVERSITY	Miss	USAF	RDTE/Physical Sciences - Basic Research	67
	MULTISPEC CORPORATION	New Jersey	USAF	RDTE/Physical Sciences - Basic Research	126
	NATIONAL ACADEMY SCIENCES USA	D.C.	USAF	RDTE/Physical Sciences - Basic Research	3,323
	NEW MEXICO STATE OF	New Mexico	USAF	RDTE/Physical Sciences - Basic Research	1,108
	NEW MEXICO STATE UNIVERSITY	New Mexico	USAF	RDTE/Physical Sciences - Basic Research	285
	NEW YORK UNIVERSITY	New York	USAF	RDTE/Physical Sciences - Basic Research	68
	NIELSEN ENGINEERING & RES	California	USAF	RDTE/Physical Sciences - Basic Research	158
	NORTH AMERICAN WEATHER CONS	Utah	USAF	RDTE/Physical Sciences - Basic Research	46
	NORTH CAROLINA A&T UNIV	N Carolina	USAF	RDTE/Physical Sciences - Basic Research	179
	NORTH CAROLINA CENTRAL UNIVER	N Carolina	USAF	RDTE/Physical Sciences - Basic Research	258
	NORTHEASTERN UNIVERSITY CORP	Mass	USAF	RDTE/Physical Sciences - Basic Research	60
	NORTHROP CORPORATION	California	NAVY	RDTE/Physical Sciences - Basic Research	117
	NORTHWEST RESEARCH ASSOCIATES	Washington	USAF	RDTE/Physical Sciences - Basic Research	206
	NOVA UNIVERSITY INC	Florida	USAF	RDTE/Physical Sciences - Basic Research	26
	OHIO STATE UNIVERSITY	Ohio	USAF	RDTE/Physical Sciences - Basic Research	92
	OPTRA INC	Mass	NAVY	RDTE/Physical Sciences - Basic Research	58
	ORION INTL TECHNOLOGIES	Mass	USAF	RDTE/Physical Sciences - Basic Research	145
	P C O INC	California	USAF	RDTE/Physical Sciences - Basic Research	100
	PHOTO METRIC INC	Mass	USAF	RDTE/Physical Sciences - Basic Research	49

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AJ11 (CONTINUED)					
	PHOTON RESEARCH ASSOCIATES	Mass	USAF	RDTE/Physical Sciences - Basic Research	68
	PHYSICAL OPTICS CORPORATION	California	USAF	RDTE/Physical Sciences - Basic Research	49
	PHYSICAL SCIENCES INC	Mass	USAF	RDTE/Physical Sciences - Basic Research	697
	POLYTECHNIC UNIV OF NEW YORK	New York	USAF	RDTE/Physical Sciences - Basic Research	204
	PRINCETON SCIENTIFIC INSTRS	New Jersey	USAF	RDTE/Physical Sciences - Basic Research	60
	PRINCETON UNIVERSITY	New Jersey	USAF	RDTE/Physical Sciences - Basic Research	145
	PURDUE UNIVERSITY	Indiana	USAF	RDTE/Physical Sciences - Basic Research	94
	R D P INC	Mass	USAF	RDTE/Physical Sciences - Basic Research	561
	RADIATION MONITORING DEVICES	Mass	USAF	RDTE/Physical Sciences - Basic Research	53
	RADIX SYSTEMS INC	Maryland	USAF	RDTE/Physical Sciences - Basic Research	70
	RENSSELAER POLYTECHNIC INST	New York	USAF	RDTE/Physical Sciences - Basic Research	315
	RESEARCH & DEV LABORATORIES	California	USAF	RDTE/Physical Sciences - Basic Research	8,633
	RESEARCH TRIANGLE INSTITUTE	N Carolina	USAF	RDTE/Physical Sciences - Basic Research	74
	RESOURCE MANAGEMENT ASSOC	California	USAF	RDTE/Physical Sciences - Basic Research	49
	RICE WILLIAM MARSH UNIVERSITY	Texas	USAF	RDTE/Physical Sciences - Basic Research	300
	ROCKWELL INTERNATIONAL CORP	California	USAF	RDTE/Physical Sciences - Basic Research	324
	S F A INC	D.C.	NAVY	RDTE/Physical Sciences - Basic Research	268
	SAPHIKON INC	N.H.	USAF	RDTE/Physical Sciences - Basic Research	44
	SCHWARTZ ELECTRO-OPTICS INC	Mass	USAF	RDTE/Physical Sciences - Basic Research	225
	SCIENCE APPLICATIONS INTL CORP	Virginia	USAF	RDTE/Physical Sciences - Basic Research	324
	SCIENTIFIC RESEARCH ASSOC INC	Conn	USAF	RDTE/Physical Sciences - Basic Research	188
	SELF CORP	California	USAF	RDTE/Physical Sciences - Basic Research	115
	SOUTHEASTN CTR ELECTR ENG ED	Florida	USAF	RDTE/Physical Sciences - Basic Research	1,684
	SOUTHERN METHODIST UNIVERSITY	Texas	USAF	RDTE/Physical Sciences - Basic Research	102

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AJ11 (CONTINUED)					
	SOUTHWEST RESEARCH INSTITUTE	Texas	USAF	RDTE/Physical Sciences - Basic Research	500
	SPACE ENVIROMENT CORPORATION	Utah	USAF	RDTE/Physical Sciences - Basic Research	150
	SPACE SCIENCES CORP	New York	USAF	RDTE/Physical Sciences - Basic Research	280
	SPARTA INC	Mass	USAF	RDTE/Physical Sciences - Basic Research	299
		Virginia	USAF	RDTE/Physical Sciences - Basic Research	145
					444
	CONTRACTOR TOTAL				
	SPECTRAL SCIENCES INC	Mass	USAF	RDTE/Physical Sciences - Basic Research	826
	SPIRE CORPORATION	Mass	USAF	RDTE/Physical Sciences - Basic Research	460
	SRI INTERNATIONAL	California	USAF	RDTE/Physical Sciences - Basic Research	2,173
	ST LOUIS UNIVERSITY	Missouri	USAF	RDTE/Physical Sciences - Basic Research	71
	STANFORD UNIVERSITY	California	USAF	RDTE/Physical Sciences - Basic Research	2,398
	STATE UNIVERSITY OF NEW YORK	New York	USAF	RDTE/Physical Sciences - Basic Research	777
	SUPERCONDUCTOR TECHNOLOGIES	California	USAF	RDTE/Physical Sciences - Basic Research	174
	SYNETICS CORPORATION	Mass	ARMY	RDTE/Physical Sciences - Basic Research	50
	SYSTEMS INTEGRATION ENGINEER	Mass	USAF	RDTE/Physical Sciences - Basic Research	534
	TACAN CORPORATION	California	USAF	RDTE/Physical Sciences - Basic Research	247
	TECHNOLOGY DEVELOPMENT CORP	Missouri	NAVY	RDTE/Physical Sciences - Basic Research	510
	TECHNOLOGY INTERNATIONAL CORP	Mass	USAF	RDTE/Physical Sciences - Basic Research	50
	TEXAS A & M RESEARCH FDN	Texas	USAF	RDTE/Physical Sciences - Basic Research	139
	TEXAS A & M UNIV SYS THE	Texas	USAF	RDTE/Physical Sciences - Basic Research	128
	TEXAS INSTRUMENTS INC	Texas	USAF	RDTE/Physical Sciences - Basic Research	99
	TRW INC	California	USAF	RDTE/Physical Sciences - Basic Research	378
	TUFTS UNIVERSITY	Mass	USAF	RDTE/Physical Sciences - Basic Research	92
	TUSKEGEE UNIVERSITY	Alabama	USAF	RDTE/Physical Sciences - Basic Research	55

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AJ11 (CONTINUED)					
	UNITED KINGDOM AUTOMIC	UNITED KIN	USAF	RDTE/Physical Sciences - Basic Research	\$ 512
	UNITED TECHNOLOGIES CORP	California	USAF	RDTE/Physical Sciences - Basic Research	40
		Conn	USAF	RDTE/Physical Sciences - Basic Research	801
		Florida	USAF	RDTE/Physical Sciences - Basic Research	394
	CONTRACTOR TOTAL				1,235
	UNIVERSAL ENERGY SYSTEMS INC	Ohio	USAF	RDTE/Physical Sciences - Basic Research	2,124
	UNIVERSITY OF ALASKA	Alaska	USAF	RDTE/Physical Sciences - Basic Research	30
	UNIVERSITY OF ARIZONA	Arizona	USAF	RDTE/Physical Sciences - Basic Research	1,102
	UNIVERSITY OF ARKANSAS	Arkansas	USAF	RDTE/Physical Sciences - Basic Research	110
	UNIVERSITY OF CALIFORNIA	California	NAVY USAF	RDTE/Physical Sciences - Basic Research RDTE/Physical Sciences - Basic Research	463 3,913
	STATE TOTAL				4,376
	UNIVERSITY OF CINCINNATI	Ohio	USAF	RDTE/Physical Sciences - Basic Research	44
	UNIVERSITY OF COLORADO	Colorado	USAF	RDTE/Physical Sciences - Basic Research	479
	UNIVERSITY OF DAYTON INC	Ohio	USAF	RDTE/Physical Sciences - Basic Research	35
	UNIVERSITY OF DENVER	Colorado	USAF	RDTE/Physical Sciences - Basic Research	220
	UNIVERSITY OF FLORIDA	Florida	USAF	RDTE/Physical Sciences - Basic Research	433
	UNIVERSITY OF ILLINOIS	Illinois	USAF	RDTE/Physical Sciences - Basic Research	715
	UNIVERSITY OF LOWELL	Mass	USAF	RDTE/Physical Sciences - Basic Research	792
	UNIVERSITY OF MARYLAND	D.C.	NAVY	RDTE/Physical Sciences - Basic Research	30
	UNIVERSITY OF MASSACHUSETTS	Mass	USAF	RDTE/Physical Sciences - Basic Research	380
	UNIVERSITY OF MICHIGAN	Michigan	USAF	RDTE/Physical Sciences - Basic Research	440
	UNIVERSITY OF MINNESOTA	Minnesota	USAF	RDTE/Physical Sciences - Basic Research	266
	UNIVERSITY OF MISSISSIPPI	Miss	USAF	RDTE/Physical Sciences - Basic Research	50

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AJ11 (CONTINUED)					
	UNIVERSITY OF NEVADA SYSTEM	Nevada	USAF	RDTE/Physical Sciences - Basic Research	42
	UNIVERSITY OF PENNSYLVANIA	Penn	USAF	RDTE/Physical Sciences - Basic Research	564
	UNIVERSITY OF PUERTO RICO	Puerto Rico	USAF	RDTE/Physical Sciences - Basic Research	90
	UNIVERSITY OF RHODE ISLAND	Rhode Island	USAF	RDTE/Physical Sciences - Basic Research	106
	UNIVERSITY OF SOUTHERN CALIF	California	USAF	RDTE/Physical Sciences - Basic Research	2,052
	UNIVERSITY OF TENNESSEE	Tennessee	USAF	RDTE/Physical Sciences - Basic Research	110
	UNIVERSITY OF TEXAS ARLINGTON	Texas	USAF	RDTE/Physical Sciences - Basic Research	50
	UNIVERSITY OF TEXAS AT AUSTIN	Texas	USAF	RDTE/Physical Sciences - Basic Research	716
	UNIVERSITY OF TEXAS SYSTEM	Texas	USAF	RDTE/Physical Sciences - Basic Research	92
	UNIVERSITY OF VIRGINIA	Virginia	USAF	RDTE/Physical Sciences - Basic Research	71
	UNIVERSITY OF WASHINGTON	Washington	USAF	RDTE/Physical Sciences - Basic Research	188
	UNIVERSITY OF WISCONSIN SYSTEM	Wisconsin	USAF	RDTE/Physical Sciences - Basic Research	159
	UTAH BIORESEARCH INC	Utah	USAF	RDTE/Physical Sciences - Basic Research	100
	UTAH STATE UNIVERSITY	Utah	USAF	RDTE/Physical Sciences - Basic Research	701
	UTD INC	Virginia	USAF	RDTE/Physical Sciences - Basic Research	139
	VIASAT INC	California	USAF	RDTE/Physical Sciences - Basic Research	98
	VIRGINIA POLYTECHNIC INST/ST UNI	Virginia	USAF	RDTE/Physical Sciences - Basic Research	134
	VISIDYNE INC	Mass	USAF	RDTE/Physical Sciences - Basic Research	175
	WAGNER DANIEL H ASSOCIATES	Virginia	USAF	RDTE/Physical Sciences - Basic Research	208
	WESTINGHOUSE ELECTRIC CORP	Penn	USAF	RDTE/Physical Sciences - Basic Research	486
	WOODWARD-CLYDE CONSULTANTS	California	USAF	RDTE/Physical Sciences - Basic Research	123
	XEROX CORP	California	USAF	RDTE/Physical Sciences - Basic Research	202
	YALE UNIVERSITY	Conn	NAVY	RDTE/Physical Sciences - Basic Research	83
	R&D TOTAL				82,970

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AJ12	ADVANCED FUEL RESEARCH INC	Conn	USAF	RDTE/Physical Sciences - Exploratory Devel	60
	AERODYNE RESEARCH INC	Mass	USAF	RDTE/Physical Sciences - Exploratory Devel	215
	AEROSPACE TECHNOLOGY COMPANY	Virginia	NAVY	RDTE/Physical Sciences - Exploratory Devel	44
	ALPHATECH INC	Mass	USAF	RDTE/Physical Sciences - Exploratory Devel	50
	AMPTK INC	Mass	USAF	RDTE/Physical Sciences - Exploratory Devel	310
	APPLIED MCRWAVE PLSMA CONCEPTS	California	USAF	RDTE/Physical Sciences - Exploratory Devel	245
	ARCON CORPORATION	Mass	USAF	RDTE/Physical Sciences - Exploratory Devel	300
	ASSURANCE TECHNOLOGY CORP	Mass	USAF	RDTE/Physical Sciences - Exploratory Devel	519
	ATMOSPHERIC ENVIRONMENTAL RES	Mass	USAF	RDTE/Physical Sciences - Exploratory Devel	351
	AUTOMETRIC INC	Virginia	USAF	RDTE/Physical Sciences - Exploratory Devel	75
	AWARE INC	Mass	USAF	RDTE/Physical Sciences - Exploratory Devel	451
	BOEING COMPANY THE	Washington	USAF	RDTE/Physical Sciences - Exploratory Devel	800
	BOSTON COLLEGE TRUSTEES OF	Mass	USAF	RDTE/Physical Sciences - Exploratory Devel	911
	BROWN UNIVERSITY	Rhode Isld	USAF	RDTE/Physical Sciences - Exploratory Devel	40
	CALIFORNIA URBAN INDIAN HEALTH	California	USAF	RDTE/Physical Sciences - Exploratory Devel	120
	CALSPAN CORPORATION	New York	USAF	RDTE/Physical Sciences - Exploratory Devel	3,260
	CANADIAN COMMERCIAL CORP	CANADA	USAF	RDTE/Physical Sciences - Exploratory Devel	175
	CARNEGIE MELLON UNIVERSITY	Penn	USAF	RDTE/Physical Sciences - Exploratory Devel	31
	CELCO TOOL & ENGINEERING	New Jersey	USAF	RDTE/Physical Sciences - Exploratory Devel	266
	CERAMATEC INC	Utah	USAF	RDTE/Physical Sciences - Exploratory Devel	187
	CLEMSON UNIVERSITY	S Carolina	USAF	RDTE/Physical Sciences - Exploratory Devel	50
	COGNITIVE SYSTEMS INC	Conn	USAF	RDTE/Physical Sciences - Exploratory Devel	759
	COLORADO STATE UNIVERSITY	Colorado	USAF	RDTE/Physical Sciences - Exploratory Devel	40
	COLUMBIA UNIVERSITY	New York	USAF	RDTE/Physical Sciences - Exploratory Devel	139
	COMPUTATIONAL PHYSICS INC	Virginia	USAF	RDTE/Physical Sciences - Exploratory Devel	70
	DAVID SARNOFF RESEARCH CENTER	New Jersey	USAF	RDTE/Physical Sciences - Exploratory Devel	457

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AJ12 (CONTINUED)					
	DEFENSE GROUP INC	California	USAF	RDTE/Physical Sciences - Exploratory Devel	\$ 49
	ELECTROMAGNETIC SCIENCES INC	Georgia	USAF	RDTE/Physical Sciences - Exploratory Devel	48
	FAST MATHEMATICAL ALGORITHMS	Conn	USAF	RDTE/Physical Sciences - Exploratory Devel	133
	FRONTIER TECHNOLOGIES CORP	Mass	USAF	RDTE/Physical Sciences - Exploratory Devel	49
	GENERAL ELECTRIC COMPANY	New York	USAF	RDTE/Physical Sciences - Exploratory Devel	3,233
	HONEYWELL INC	Minnesota	USAF	RDTE/Physical Sciences - Exploratory Devel	480
	HUGHES AIRCRAFT COMPANY	California	USAF	RDTE/Physical Sciences - Exploratory Devel	306
	INTEGRATED SYSTEMS INC	California	USAF	RDTE/Physical Sciences - Exploratory Devel	80
	INTERNATIONAL BUS MCHS CORP	California	USAF	RDTE/Physical Sciences - Exploratory Devel	85
	K C RESEARCH	Colorado	USAF	RDTE/Physical Sciences - Exploratory Devel	49
	LASER PHOTONICS TECHNOLOGY INC	New York	USAF	RDTE/Physical Sciences - Exploratory Devel	50
	LOCKHEED MISSILES & SPACE CO	California	USAF	RDTE/Physical Sciences - Exploratory Devel	456
	LORAL CORPORATION	California	USAF	RDTE/Physical Sciences - Exploratory Devel	492
	LTV AEROSPACE & DEFENSE CO	Texas	USAF	RDTE/Physical Sciences - Exploratory Devel	945
	MARTIN MARIETTA CORPORATION	Maryland	USAF	RDTE/Physical Sciences - Exploratory Devel	647
	MASSACHUSETTS TECHNOLOGICAL LAB	Mass	USAF	RDTE/Physical Sciences - Exploratory Devel	232
	MAXWELL LABORATORIES INC	California	USAF	RDTE/Physical Sciences - Exploratory Devel	127
	MCDONNELL DOUGLAS SPACE SYS CO	California	USAF	RDTE/Physical Sciences - Exploratory Devel	119
	MISSION GORGE RANGE CORP	California	USAF	RDTE/Physical Sciences - Exploratory Devel	100
	MISSION RESEARCH CORPORATION	N.H.	USAF	RDTE/Physical Sciences - Exploratory Devel	1,672
	MOSES HARRY E APPLIMATH CO	Mass	USAF	RDTE/Physical Sciences - Exploratory Devel	152
	NEW MEXICO STATE OF	New Mexico	USAF	RDTE/Physical Sciences - Exploratory Devel	101
	NORTH CAROLINA STATE UNIV	N Carolina	USAF	RDTE/Physical Sciences - Exploratory Devel	35
	NORTHEASTERN UNIVERSITY CORP	Mass	USAF	RDTE/Physical Sciences - Exploratory Devel	698

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AJ12 (CONTINUED)					
	NORTHWEST RESEARCH ASSOCIATES	Washington	USAF	RDTE/Physical Sciences - Exploratory Devel	350
	OHIO STATE UNIVERSITY	Ohio	USAF	RDTE/Physical Sciences - Exploratory Devel	222
	OPTRON SYSTEMS INC	Mass	NAVY	RDTE/Physical Sciences - Exploratory Devel	61
	OREGON STATE UNIVERSITY	Oregon	USAF	RDTE/Physical Sciences - Exploratory Devel	60
	PACIFIC SIERRA RESEARCH CORP	California	USAF	RDTE/Physical Sciences - Exploratory Devel	140
	PANAMETRICS INC	Mass	USAF	RDTE/Physical Sciences - Exploratory Devel	50
	PARKE MATHEMATICAL LABS INC	Mass	USAF	RDTE/Physical Sciences - Exploratory Devel	420
	PHOTO METRIC INC	Mass	USAF	RDTE/Physical Sciences - Exploratory Devel	79
	PHYSICS MATHEMATICS COMPUTER	New Mexico	NAVY	RDTE/Physical Sciences - Exploratory Devel	90
	RADEX INC	Mass	USAF	RDTE/Physical Sciences - Exploratory Devel	171
	RAYTHEON COMPANY	Rhode Isld	USAF	RDTE/Physical Sciences - Exploratory Devel	165
	RENSSELAER POLYTECHNIC INST	New York	USAF	RDTE/Physical Sciences - Exploratory Devel	75
	RESEARCH SUPPORT INSTRUMENTS	Maryland	USAF	RDTE/Physical Sciences - Exploratory Devel	438
	ROCKWELL INTERNATIONAL CORP	California	USAF	RDTE/Physical Sciences - Exploratory Devel	1,097
	ROYAL NORWEGION COUNCIL	NORWAY	USAF	RDTE/Physical Sciences - Exploratory Devel	353
	S F A INC	D.C.	NAVY	RDTE/Physical Sciences - Exploratory Devel	773
		Maryland	NAVY	RDTE/Physical Sciences - Exploratory Devel	100
	CONTRACTOR TOTAL				873
	S S G INC	Mass	USAF	RDTE/Physical Sciences - Exploratory Devel	162
	SCHWARTZ ELECTRO-OPTICS INC	Florida	USAF	RDTE/Physical Sciences - Exploratory Devel	591
	SCIENCE APPLICATIONS INTL CORP	California	USAF	RDTE/Physical Sciences - Exploratory Devel	639
	SOUTHEASTN CTR ELECTR ENG ED	Mass	USAF	RDTE/Physical Sciences - Exploratory Devel	575
	SPARTA INC	Mass	USAF	RDTE/Physical Sciences - Exploratory Devel	226
	SRI INTERNATIONAL	California	USAF	RDTE/Physical Sciences - Exploratory Devel	139

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AJ12 (CONTINUED)					
	STANFORD UNIVERSITY	California	USAF	RDTE/Physical Sciences - Exploratory Devel	\$ 986
	TECHNOLOGY COMMUNCATN INTL	California	USAF	RDTE/Physical Sciences - Exploratory Devel	170
	ULTRAMET	California	USAF	RDTE/Physical Sciences - Exploratory Devel	100
	UNITED TECHNOLOGIES CORP	Conn	USAF	RDTE/Physical Sciences - Exploratory Devel	115
	UNIV OF WARWICK	UNITED KIN	ARMY	RDTE/Physical Sciences - Exploratory Devel	50
	UNIVERSITY OF CALIFORNIA	California	USAF	RDTE/Physical Sciences - Exploratory Devel	459
	UNIVERSITY OF CHICAGO THE	Illinois	USAF	RDTE/Physical Sciences - Exploratory Devel	100
	UNIVERSITY OF CONNECTICUT	Conn	USAF	RDTE/Physical Sciences - Exploratory Devel	62
	UNIVERSITY OF EDINBURG	UNITED KIN	USAF	RDTE/Physical Sciences - Exploratory Devel	75
	UNIVERSITY OF IOWA THE	Iowa	USAF	RDTE/Physical Sciences - Exploratory Devel	155
	UNIVERSITY OF MARYLAND	Maryland	USAF	RDTE/Physical Sciences - Exploratory Devel	410
	UNIVERSITY OF MASSACHUSETTS	Mass	USAF	RDTE/Physical Sciences - Exploratory Devel	410
	UNIVERSITY OF PENNSYLVANIA	Penn	USAF	RDTE/Physical Sciences - Exploratory Devel	63
	UNIVERSITY OF SOUTHERN CALIF	California	USAF	RDTE/Physical Sciences - Exploratory Devel	80
	UNIVERSITY OF TEXAS AT DALLAS	N.H.	USAF	RDTE/Physical Sciences - Exploratory Devel	9,143
		Texas	USAF	RDTE/Physical Sciences - Exploratory Devel	225
	CONTRACTOR TOTAL				9,368
	UNIVERSITY OF UTAH	Utah	USAF	RDTE/Physical Sciences - Exploratory Devel	84
	UNIVERSITY OF VERMONT	Vermont	USAF	RDTE/Physical Sciences - Exploratory Devel	98
	UNIVERSITY OF WISCONSIN SYSTEM	Wisconsin	USAF	RDTE/Physical Sciences - Exploratory Devel	30
	UNIVERSITY OF WYOMING	Wyoming	USAF	RDTE/Physical Sciences - Exploratory Devel	30
	UTAH STATE UNIVERSITY	Utah	USAF	RDTE/Physical Sciences - Exploratory Devel	6,807
	WESTINGHOUSE ELECTRIC CORP	Maryland	USAF	RDTE/Physical Sciences - Exploratory Devel	27
		New York	USAF	RDTE/Physical Sciences - Exploratory Devel	90

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AJ12 (CONTINUED)					
	CONTRACTOR TOTAL				
	WOODWARD-CLYDE CONSULTANTS	California	USAF	RDTE/Physical Sciences - Exploratory Devel	117
	YAP ANALYTICS INC	Mass	USAF	RDTE/Physical Sciences - Exploratory Devel	60
	R&D TOTAL				275
					47,343
AJ13	APPLIED SCIENCE & TECHNOLOGY	Mass	NAVY	RDTE/Physical Sciences - Advanced Developm	50
	ARCON CORPORATION	Mass	USAF	RDTE/Physical Sciences - Advanced Developm	316
	ARGOSYSTEMS INC	California	USAF	RDTE/Physical Sciences - Advanced Developm	87
	ATMOSPHERIC ENVIRONMENTAL RES	Mass	USAF	RDTE/Physical Sciences - Advanced Developm	114
	AVCON ADVANCED CONTROLS TECH	California	NAVY	RDTE/Physical Sciences - Advanced Developm	50
	BOSTON UNIVERSITY	Mass	USAF	RDTE/Physical Sciences - Advanced Developm	177
	CARNEGIE MELLON UNIVERSITY	Penn	USAF	RDTE/Physical Sciences - Advanced Developm	145
	CELCO TOOL & ENGINEERING	New Jersey	USAF	RDTE/Physical Sciences - Advanced Developm	526
	COMPUTATIONAL PHYSICS INC	Virginia	USAF	RDTE/Physical Sciences - Advanced Developm	350
	CONDUCTUS INC	California	USAF	RDTE/Physical Sciences - Advanced Developm	130
	CRAMER H E COMPANY INC	Utah	ARMY	RDTE/Physical Sciences - Advanced Developm	40
	CREARE INC	N.H.	USAF	RDTE/Physical Sciences - Advanced Developm	232
	CRYO POWER ASSOCIATES	New Mexico	USAF	RDTE/Physical Sciences - Advanced Developm	266
	E I C LABORATORY INC	Mass	NAVY	RDTE/Physical Sciences - Advanced Developm	66
	IEK DYNAMICS INC	California	USAF	RDTE/Physical Sciences - Advanced Developm	50
	EDGE TECH INC	Indiana	NAVY	RDTE/Physical Sciences - Advanced Developm	57
	ELECTRO OPTEK CORPORATION	California	NAVY	RDTE/Physical Sciences - Advanced Developm	50
	ELISRA ELECTRONIC SYSTEMS LTD	ISRAEL	USAF	RDTE/Physical Sciences - Advanced Developm	100
	FIELD M D COMPANY	Mass	USAF	RDTE/Physical Sciences - Advanced Developm	49
	FLOW INDUSTRIES INC	Washington	NAVY	RDTE/Physical Sciences - Advanced Developm	50

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AJ13 (CONTINUED)

GEO CENTERS INC	D.C.	NAVY	RDTE/Physical Sciences - Advanced Developm	\$	316
HUGHES AIRCRAFT COMPANY	California	USAF	RDTE/Physical Sciences - Advanced Developm		60
MASSACHSTTS INST OF TECHNOLOGY	Mass	USAF	RDTE/Physical Sciences - Advanced Developm		135
MCDONNELL DOUGLAS CORPORATION	Texas	USAF	RDTE/Physical Sciences - Advanced Developm		1,401
MISSION RESEARCH CORPORATION	N.H.	USAF	RDTE/Physical Sciences - Advanced Developm		250
NATIONAL CENTRE TRIBOLOGY	UNITED KIN	USAF	RDTE/Physical Sciences - Advanced Developm		165
NORTHEASTERN UNIVERSITY CORP	Mass	USAF	RDTE/Physical Sciences - Advanced Developm		111
NORTHWEST RESEARCH ASSOCIATES	Washington	USAF	RDTE/Physical Sciences - Advanced Developm		182
OPTICAL TECHNOLOGIES INC	W Virginia	NAVY	RDTE/Physical Sciences - Advanced Developm		59
OPTIVISION INC	California	USAF	RDTE/Physical Sciences - Advanced Developm		175
PACIFIC APPLIED RESEARCH INC	California	USAF	RDTE/Physical Sciences - Advanced Developm		221
PANAMETRICS INC	Mass	USAF	RDTE/Physical Sciences - Advanced Developm		600
PEMCO AEROPLEX INC	California	USAF	RDTE/Physical Sciences - Advanced Developm		150
PHYSICAL SCIENCES INC	Mass	USAF	RDTE/Physical Sciences - Advanced Developm		100
R J O ENTERPRISES INC	Maryland	USAF	RDTE/Physical Sciences - Advanced Developm		222
RMA AEROSPACE CO INC	California	USAF	RDTE/Physical Sciences - Advanced Developm		97
RMS TECHNOLOGIES INCORPORATED	Mass	USAF	RDTE/Physical Sciences - Advanced Developm		607
ROCKWELL INTERNATIONAL CORP	California	USAF	RDTE/Physical Sciences - Advanced Developm		320
S F A INC	D.C.	NAVY	RDTE/Physical Sciences - Advanced Developm		124
SIERRA MONOLITHICS INC	California	USAF	RDTE/Physical Sciences - Advanced Developm		50
SPACE DATA CORPORATION	Arizona	USAF	RDTE/Physical Sciences - Advanced Developm		562
SPACE POWER INCORPORATED	California	USAF	RDTE/Physical Sciences - Advanced Developm		127
SPARTA INC	Mass	USAF	RDTE/Physical Sciences - Advanced Developm		294
STATE UNIVERSITY OF NEW YORK	New York	USAF	RDTE/Physical Sciences - Advanced Developm		369

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AJ13 (CONTINUED)					
	SYSTEMS INTEGRATION ENGINEER	Mass	USAF	RDTE/Physical Sciences - Advanced Developm	537
	TECHNICAL ENGRSERVICESX D	New Jersey	USAF	RDTE/Physical Sciences - Advanced Developm	50
	TEXTRON INC	New York	USAF	RDTE/Physical Sciences - Advanced Developm	426
	THIN FILM CONCEPTS INC	New York	USAF	RDTE/Physical Sciences - Advanced Developm	50
	UNIAX CORP	California	USAF	RDTE/Physical Sciences - Advanced Developm	51
	UNIVERSITY OF ARIZONA	Arizona	USAF	RDTE/Physical Sciences - Advanced Developm	682
	UNIVERSITY OF CALIFORNIA	California	USAF	RDTE/Physical Sciences - Advanced Developm	134
	UNIVERSITY OF LOWELL	Mass	USAF	RDTE/Physical Sciences - Advanced Developm	658
	UNIVERSITY OF MASSACHUSETTS	Mass	USAF	RDTE/Physical Sciences - Advanced Developm	213
	UNIVERSITY OF SOUTHERN CALIF	California	USAF	RDTE/Physical Sciences - Advanced Developm	400
	WENTWORTH INST OF TECHNOLOGY	Mass	USAF	RDTE/Physical Sciences - Advanced Developm	919
	R&D TOTAL				13,722
AJ14	ANALYTIC SERVICES INC	Virginia	USAF	RDTE/Physical Sciences - Engineering Devel	26,610
	BALL CORPORATION	Texas	USAF	RDTE/Physical Sciences - Engineering Devel	159
	HUGHES AIRCRAFT COMPANY	California	USAF	RDTE/Physical Sciences - Engineering Devel	258
	R&D TOTAL				27,027
AJ15	M/A COM INC	Mass	ARMY	RDTE/Physical Sciences - Operational Syste	420
	PHYSICS MATHEMATICS COMPUTER	New Mexico	NAVY	RDTE/Physical Sciences - Operational Syste	36
	R&D TOTAL				456
AJ16	ADVANCED TECHNOLOGY MATERIALS	Conn	USAF	RDTE/Physical Sciences - Management & Supp	49
	ATOM SCIENCES INC	Tennessee	USAF	RDTE/Physical Sciences - Management & Supp	96-
	AUTOMATIX INCORPORATED	Mass	NAVY	RDTE/Physical Sciences - Management & Supp	50
	C V LARDEGRO	UNITED KIN	ARMY	RDTE/Physical Sciences - Management & Supp	247
	CFD RESEARCH CORPORATION	Alabama	USAF	RDTE/Physical Sciences - Management & Supp	50

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AJ16 (CONTINUED)					
	COGNITECH INC	California	USAF	RDTE/Physical Sciences - Management & Supp	50
	DIVERSIFIED ENGINEERING INC	Virginia	USAF	RDTE/Physical Sciences - Management & Supp	260
	F & H APPLIED ASSOCIATES INC	New Jersey	USAF	RDTE/Physical Sciences - Management & Supp	160
	FIRST IMAGE MANAGEMENT CO	Minnesota	USAF	RDTE/Physical Sciences - Management & Supp	50
	FOSTER MILLER INC	Mass	USAF	RDTE/Physical Sciences - Management & Supp	230
	HITITE MICROWAVE CORPORATION	Mass	USAF	RDTE/Physical Sciences - Management & Supp	57
	HYPRES INC	New York	USAF	RDTE/Physical Sciences - Management & Supp	50
	INNOVA LABORATORIES,	California	USAF	RDTE/Physical Sciences - Management & Supp	100
	KEO CONSULTANTS	Mass	USAF	RDTE/Physical Sciences - Management & Supp	99
	LASER PHOTONICS TECHNOLOGY INC	New York	USAF	RDTE/Physical Sciences - Management & Supp	50
	LIU & ASSOCIATES	Utah	USAF	RDTE/Physical Sciences - Management & Supp	150
	MAYFLOWER COMMUNICATION CORP	Mass	USAF	RDTE/Physical Sciences - Management & Supp	129
	MEI ASSOCIATES INC	Mass	USAF	RDTE/Physical Sciences - Management & Supp	47
	NETROLOGIC INC	California	USAF	RDTE/Physical Sciences - Management & Supp	255
	POTOMAC PHOTONICS INC	Maryland	USAF	RDTE/Physical Sciences - Management & Supp	49
	PROGRAM DEVELOPMENT CORP	New York	USAF	RDTE/Physical Sciences - Management & Supp	50
	RAND CORPORATION	California	USAF	RDTE/Physical Sciences - Management & Supp	24,814
	SCIENTIFIC SYSTEMS INC	Mass	USAF	RDTE/Physical Sciences - Management & Supp	50
	SPARTA INC	California	USAF	RDTE/Physical Sciences - Management & Supp	266
	SQM TECHNOLOGY INC	California	USAF	RDTE/Physical Sciences - Management & Supp	131
	TECHPLAN CORP	Virginia	USAF	RDTE/Physical Sciences - Management & Supp	787
	TOPICAL TESTING INC	Utah	USAF	RDTE/Physical Sciences - Management & Supp	493
	TS INFOSYSTEMS INC	Florida	USAF	RDTE/Physical Sciences - Management & Supp	225
	R&D TOTAL				28,852

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AJ21	BAKER WILFRED ENGINEERING	Texas	USAF	RDTE/Math & Computer Sciences - Basic Rese	49
	BRAN FERREN CORP	New York	USAF	RDTE/Math & Computer Sciences - Basic Rese	50
	BRUNEL UNIVERSITY	UNITED KIN	ARMY	RDTE/Math & Computer Sciences - Basic Rese	25
	CHARLES SYSTEMS CORP	Michigan	USAF	RDTE/Math & Computer Sciences - Basic Rese	50
	IMPERIAL COLLEGE OF SCIENCE &	UNITED KIN	ARMY	RDTE/Math & Computer Sciences - Basic Rese	26
	PHYSICAL SCIENCES INC	Virginia	USAF	RDTE/Math & Computer Sciences - Basic Rese	49
	REKENTHALER TECHNOLOGY ASSOC	Virginia	ARMY	RDTE/Math & Computer Sciences - Basic Rese	48
	S Y S	Maryland	NAVY	RDTE/Math & Computer Sciences - Basic Rese	34
	SURFACTANT ASSOC INC	Oklahoma	USAF	RDTE/Math & Computer Sciences - Basic Rese	50
	WEIZMANN INSTITUTE THE	ISRAEL	ARMY	RDTE/Math & Computer Sciences - Basic Rese	54
	R&D TOTAL				435
AJ22	BRUNEL UNIVERSITY	UNITED KIN	ARMY	RDTE/Math & Computer Sciences - Explor Dev	25
	CLARK ATLANTA UNIVERSITY	Georgia	ARMY	RDTE/Math & Computer Sciences - Explor Dev	375
	CREDENCE SYSTEMS CORPORATION	Oregon	NAVY	RDTE/Math & Computer Sciences - Explor Dev	1,287
	R&D TOTAL				1,687
AJ25	ELECTRONIC DATA SYSTEMS CORP	Texas	NAVY	RDTE/Math & Computer Sciences - Op Systems	520
	UNIVERSAL FIBER OPTICS INC	Virginia	USAF	RDTE/Math & Computer Sciences - Op Systems	67
	R&D TOTAL				587
AJ31	APEX DISTRIBUTING	Illinois	USAF	RDTE/Environmental Sciences - Basic Resear	27
	FRESHWATER BIOLOGICAL ASSOC	UNITED KIN	ARMY	RDTE/Environmental Sciences - Basic Resear	30
	KUK DONG CONSTRUCTION CO LTD	SWITZERLAN	ARMY	RDTE/Environmental Sciences - Basic Resear	43
	MEMBRANE TECHNOLOGY & RESEARCH	California	USAF	RDTE/Environmental Sciences - Basic Resear	65
	OPEN UNIVERSITY THE	UNITED KIN	ARMY	RDTE/Environmental Sciences - Basic Resear	87
	PACIFIC SIERRA RESEARCH CORP	California	NAVY	RDTE/Environmental Sciences - Basic Resear	50
	QUANTEL INTERNATIONAL INC	California	USAF	RDTE/Environmental Sciences - Basic Resear	29
	ROCK ENGRG CONSULTANTS	UNITED KIN	ARMY	RDTE/Environmental Sciences - Basic Resear	61

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AJ31 (CONTINUED)					
	UNIVERSITY OF READING	UNITED KIN	ARMY	RDTE/Environmental Sciences - Basic Resear	109
R&D TOTAL					501
AJ32	ANDREWS & SCHOFIELD ASSOCIATES	UNITED KIN	ARMY	RDTE/Environmental Sciences - Explor Devel	220
	BENNETT S REFRUGERATION INC	California	NAVY	RDTE/Environmental Sciences - Explor Devel	73
	CENTRAL WASHINGTON UNIVERSITY	Washington	ARMY	RDTE/Environmental Sciences - Explor Devel	25
	CLARK ATLANTA UNIVERSITY	Georgia	ARMY	RDTE/Environmental Sciences - Explor Devel	193
	COE TRUMAN TECHNOLOGIES INC	Illinois	ARMY	RDTE/Environmental Sciences - Explor Devel	772
	COMPUTER SCIENCES CORPORATION	California	NAVY	RDTE/Environmental Sciences - Explor Devel	1,623
	FOSTER MILLER INC	Mass	ARMY	RDTE/Environmental Sciences - Explor Devel	55
	HOUSTON AREA RESEARCH CENTER	Texas	ARMY	RDTE/Environmental Sciences - Explor Devel	90
	TNO INSTITUTE FOR PERCEPTION	NETHERLAND	ARMY	RDTE/Environmental Sciences - Explor Devel	70
	UNIVERSITY OF ILLINOIS	Illinois	ARMY	RDTE/Environmental Sciences - Explor Devel	409
	UNIVERSITY OF MISSISSIPPI	Miss	ARMY	RDTE/Environmental Sciences - Explor Devel	174
	WESTON ROY F INC	Penn	ARMY	RDTE/Environmental Sciences - Explor Devel	75
R&D TOTAL					3,779
AJ35	LUND INSTITUTE OF TECHNOLOGY	SWEDEN	ARMY	RDTE/Environmental Sciences - Op Systems D	30
	NATIONAL SERVICES PROJECTS	ITALY	ARMY	RDTE/Environmental Sciences - Op Systems D	39
	RAND CORPORATION	California	ARMY	RDTE/Environmental Sciences - Op Systems D	120-
R&D TOTAL					51-
AJ36	DR CHARLES W. SWITHINBANK	UNITED KIN	ARMY	RDTE/Environmental Sciences - Management &	50
AJ41	A A I CORPORATION	Maryland	USAF	RDTE/Engineering Sciences - Basic Research	211
	FLOW INDUSTRIES INC	Washington	USAF	RDTE/Engineering Sciences - Basic Research	50
	HEBREW UNIVERSITY OF JERUSALEM	ISRAEL	ARMY	RDTE/Engineering Sciences - Basic Research	30
	KYONG HYANG CONSTR & ENGR CO	UNITED KIN	ARMY	RDTE/Engineering Sciences - Basic Research	32

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AJ41	(CONTINUED)				
	MISSISSIPPI STATE UNIVERSITY	Miss	USAF	RDTE/Engineering Sciences - Basic Research	\$ 86
	POLITECH DI MILANO	ITALY	ARMY	RDTE/Engineering Sciences - Basic Research	45
	UNIVERSITY OF CAMBRIDGE	UNITED KIN	ARMY	RDTE/Engineering Sciences - Basic Research	67
	UNIVERSITY OF FLORENCE	ITALY	ARMY	RDTE/Engineering Sciences - Basic Research	32
	UNIVERSITY OF FLORIDA	Florida	USAF	RDTE/Engineering Sciences - Basic Research	83
	UNIVERSITY OF GENT	BELGIUM	ARMY	RDTE/Engineering Sciences - Basic Research	35
	UNIVERSITY OF METZ	FRANCE	ARMY	RDTE/Engineering Sciences - Basic Research	30
	UNIVERSITY OF SURREY	UNITED KIN	ARMY	RDTE/Engineering Sciences - Basic Research	38
	R&D TOTAL				739
AJ42	IMPERIAL COLLEGE OF SCIENCE &	UNITED KIN	ARMY	RDTE/Engineering Sciences - Exploratory De	32
	IOWA STATE UNIV SCNC	Iowa	ARMY	RDTE/Engineering Sciences - Exploratory De	60
	PINNACLE RESEARCH INSTITUTE	California	ARMY	RDTE/Engineering Sciences - Exploratory De	229
	SUPERIOR ELECTRIC CO THE	Conn	ARMY	RDTE/Engineering Sciences - Exploratory De	250
	TESECO SRL	UNITED KIN	ARMY	RDTE/Engineering Sciences - Exploratory De	40
	R&D TOTAL				611
AJ43	WESTINGHOUSE ELECTRIC CORP	Penn	USAF	RDTE/Engineering Sciences - Advanced Devel	200
AJ44	SCIENCE APPLICATIONS INTL CORP	Virginia	ARMY	RDTE/Engineering Sciences - Engineering De	337
	UNIVERSITY OF HAWAII	Hawaii	NAVY	RDTE/Engineering Sciences - Engineering De	1,510
	R&D TOTAL				1,847
AJ45	NAPIER POLYTECHNIC DEPARTMENT	UNITED KIN	ARMY	RDTE/Engineering Sciences - Operational Sy	30
	RIGAKU/USA INC	Mass	ARMY	RDTE/Engineering Sciences - Operational Sy	56
	R&D TOTAL				86
AJ46	A & L SHATTO INC	Maryland	ARMY	RDTE/Engineering Sciences - Management & S	195
	BIONIC INFORMATION	Ohio	USAF	RDTE/Engineering Sciences - Management & S	46

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AJ46 (CONTINUED)					
	CAMBRIDGE HYDRO DYNAMICS INC	New Jersey	USAF	RDTE/Engineering Sciences - Management & S	200
	FOSTER MILLER INC	Mass	USAF	RDTE/Engineering Sciences - Management & S	132
	PHOTONICS RESEARCH INC	New Mexico	NAVY	RDTE/Engineering Sciences - Management & S	50
	PHYSICAL SCIENCES INC	Mass	USAF	RDTE/Engineering Sciences - Management & S	50
	PRECISION MEASUREMENT INC	Michigan	USAF	RDTE/Engineering Sciences - Management & S	48
	SYSTEMS TECHNOLOGY INC	California	USAF	RDTE/Engineering Sciences - Management & S	597
	UNIVERSITE PIERRE & MARIE CURIE	FRANCE	ARMY	RDTE/Engineering Sciences - Management & S	30
	R&D TOTAL				1,348
AJ52	ARIEL LIFE SYSTEMS INC	California	NAVY	RDTE/Life Sciences - Exploratory Developme	35
AJ53	UNITED STATES DEPT OF COMMERCE	Colorado	NAVY	RDTE/Life Sciences - Advanced Development	150
AJ56	BIOINDUSTRIAL TECHNOLOGIES	Texas	NAVY	RDTE/Life Sciences - Management & Support	50
AJ61	UNIVERSIDADE NOVA DE LISBOA	PORTUGAL	ARMY	RDTE/Psychological Sciences - Basic Resear	50
	UNIVERSITY OF BRADFORD	UNITED KIN	ARMY	RDTE/Psychological Sciences - Basic Resear	31
	UNIVERSITY OF READING	UNITED KIN	ARMY	RDTE/Psychological Sciences - Basic Resear	48
	R&D TOTAL				129
AJ62	COMPUTER AIDED SYSTEM HARDWARE	S ARABIA	ARMY	RDTE/Psychological Sciences - Exploratory	598
	MAFAT DEPT OF BEHAVIORAL SCIEN	ISRAEL	ARMY	RDTE/Psychological Sciences - Exploratory	59
	STATE UNIVERSITY OF NEW YORK	New York	NAVY	RDTE/Psychological Sciences - Exploratory	52
	SUSQUEHANNA RESOURCES ENVRNMNT	New York	ARMY	RDTE/Psychological Sciences - Exploratory	250
	R&D TOTAL				959
AJ65	HUGHES AIRCRAFT COMPANY	California	NAVY	RDTE/Psychological Sciences - Operational	26
AJ71	CITY UNIVERSITY OF NEW YORK	New York	ARMY	RDTE/Social Sciences - Basic Research	81
AJ74	SCIENCE APPLICATIONS INTL CORP	Virginia	ARMY	RDTE/Social Sciences - Engineering Develop	843-
AJ91	APPLIED POLYMER SYSTEMS	New York	ARMY	RDTE/Other Sciences - Basic Research	50

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AJ91 (CONTINUED)				
FLAM & RUSSELL INC	Penn	ARMY	RDTE/Other Sciences - Basic Research	
PHYSICAL OPTICS CORPORATION	California	NAVY	RDTE/Other Sciences - Basic Research	
R&D TOTAL				7
AJ92 BALES SCIENTIFIC INC	California	NAVY	RDTE/Other Sciences - Exploratory Developm	
UNIVERSITY OF CALIFORNIA	California	NAVY	RDTE/Other Sciences - Exploratory Developm	
R&D TOTAL				50
AJ96 PHYSICAL OPTICS CORPORATION	California	ARMY	RDTE/Other Sciences - Management & Support	
AM11 CENTER FOR STRATEGIC STUDY	D.C.	ARMY	RDTE/Int'l Affairs & Cooperation-Basic Res	57
AN11 JACKSON HENRY M FOUNDATION	Maryland	ARMY	RDTE/Biomedical - Basic Research	655
S R A TECHNOLOGIES INC	Virginia	ARMY	RDTE/Biomedical - Basic Research	2,265
R&D TOTAL				2,920
AN12 GEORGIA TECH RESEARCH CORP	Georgia	USAF	RDTE/Biomedical - Exploratory Development	50
AN16 BIODYMANIC RESEARCH CORP	Texas	USAF	RDTE/Biomedical - Management & Support	303
OETICS INC	California	USAF	RDTE/Biomedical - Management & Support	117
R&D TOTAL				420
AN41 FUNDACION MEXICAN PARA LA SALU	MEXICO	ARMY	RDTE/Health Services - Basic Research	125
AN46 FOUNDATION HEALTH CORPORATION	California	ARMY	RDTE/Health Services - Management & Suppor	433,279
AN62 S FLORIDA DRUG RESEARCH CORP	Florida	ARMY	RDTE/Rehabilitative Engines-Explor Dev	404
AN72 UNIVERSITY OF WISCONSIN SYSTEM	Wisconsin	NAVY	RDTE/Specialized Services - Exploratory De	50
AN91 ADEZA BIOMEDICAL CORP	California	ARMY	RDTE/Other Medical - Basic Research	250
AMERICAN RED CROSS THE	D.C.	ARMY	RDTE/Other Medical - Basic Research	36-
APPLIED PHYSICS INC	New York	ARMY	RDTE/Other Medical - Basic Research	186
ARIZONA STATE UNIVERSITY	Arizona	ARMY	RDTE/Other Medical - Basic Research	59
ASSOCIATE CONSULTANTS INC	D.C.	ARMY	RDTE/Other Medical - Basic Research	70

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AN91 (CONTINUED)

BALTIMORE UNIVERSITY	Maryland	ARMY	RDTE/Other Medical	- Basic Research	\$ 397
BAYLOR COLLEGE OF MEDICINE	Texas	ARMY	RDTE/Other Medical	- Basic Research	382
BELMONT INSTRUMENT CORPORATION	Mass	ARMY	RDTE/Other Medical	- Basic Research	50
BETHESDA RESEARCH LABS	Maryland	ARMY	RDTE/Other Medical	- Basic Research	47
BIO METRIC SYSTEMS INC	Minnesota	ARMY	RDTE/Other Medical	- Basic Research	188
BRANDEIS UNIVERSITY	Mass	ARMY	RDTE/Other Medical	- Basic Research	43
BRATON BIOTECH INC	Maryland	ARMY	RDTE/Other Medical	- Basic Research	460
CALIFORNIA INST OF TECHNOLOGY	California	ARMY	RDTE/Other Medical	- Basic Research	170
CATHOLIC UNIVERSITY OF AMERICA	D.C.	ARMY	RDTE/Other Medical	- Basic Research	52
CERNYLAND OF UTICA	New York	ARMY	RDTE/Other Medical	- Basic Research	50
CONDIE RICHARD M DR	Minnesota	ARMY	RDTE/Other Medical	- Basic Research	40
CORVAS INC	California	ARMY	RDTE/Other Medical	- Basic Research	188
DELPHI PHARMACEUTICAL INC	Mass	ARMY	RDTE/Other Medical	- Basic Research	50
DYNAGEN INC	Mass	ARMY	RDTE/Other Medical	- Basic Research	249
DYNAMAC CORPORATION	Maryland	ARMY	RDTE/Other Medical	- Basic Research	41
ELCATECH INC	N Carolina	ARMY	RDTE/Other Medical	- Basic Research	50
ELECTROMAGNETIC TECHNOLOGY	Maryland	ARMY	RDTE/Other Medical	- Basic Research	122
ENZYME TECHNOLOGY RES GROUP	N Carolina	ARMY	RDTE/Other Medical	- Basic Research	50
ERC BIOSERVICES CORP	Maryland	ARMY	RDTE/Other Medical	- Basic Research	992
FLOW INC	Oregon	ARMY	RDTE/Other Medical	- Basic Research	50
FOSTER MILLER INC	Mass	ARMY	RDTE/Other Medical	- Basic Research	50
GEO CENTERS INC	Mass	ARMY	RDTE/Other Medical	- Basic Research	50
GEORGETOWN UNIVERSITY	D.C.	ARMY	RDTE/Other Medical	- Basic Research	410
GORGAS MEMORIAL INSTITUTE	D.C.	ARMY	RDTE/Other Medical	- Basic Research	45

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AN91 (CONTINUED)

HAHNEMANN UNIVERSITY	Penn	ARMY	RDTE/Other Medical - Basic Research	\$	194
HAWAII BIOTECHNOLOGY GROUP	Hawaii	ARMY	RDTE/Other Medical - Basic Research		362
HEALTH RESEARCH INC	New York	ARMY	RDTE/Other Medical - Basic Research		51
HERNER & COMPANY INC	Maryland	ARMY	RDTE/Other Medical - Basic Research		800
ISRAEL INST FOR BIOLOGICAL RES	ISRAEL	ARMY	RDTE/Other Medical - Basic Research		486
JARVIS CHRISTIAN COLLEGE	Texas	ARMY	RDTE/Other Medical - Basic Research		75
LIFE CELL CORP	Texas	ARMY	RDTE/Other Medical - Basic Research		50
LYNNTECH INC	Texas	ARMY	RDTE/Other Medical - Basic Research		50
METAGENE CORP	Florida	ARMY	RDTE/Other Medical - Basic Research		50
MOLECULAR TOXICOLOGY INC	Maryland	ARMY	RDTE/Other Medical - Basic Research		42-
MOLECULAR VACCINES INC	Maryland	ARMY	RDTE/Other Medical - Basic Research		259
MOREHOUSE COLLEGE	Georgia	ARMY	RDTE/Other Medical - Basic Research		130
NORTH CAROLINA STATE UNIV	N Carolina	ARMY	RDTE/Other Medical - Basic Research		201
OKLAHOMA STATE UNIVERSITY	Oklahoma	ARMY	RDTE/Other Medical - Basic Research		28
OPHIDIAN PHARMACEUTICALS INC	Wisconsin	ARMY	RDTE/Other Medical - Basic Research		50
ORD INC	N.H.	ARMY	RDTE/Other Medical - Basic Research		97
OU DERMATOLOGY CLINIC	Oklahoma	ARMY	RDTE/Other Medical - Basic Research		105
PATHOLOGY ASSOCIATES INC	Minnesota	ARMY	RDTE/Other Medical - Basic Research		1,014
PHYSICAL OPTICS CORPORATION	California	ARMY	RDTE/Other Medical - Basic Research		255
PRINCETON SCIENTIFIC ENTRPRSS	New Jersey	ARMY	RDTE/Other Medical - Basic Research		194
QUESTECH INC	Ohio	USAF	RDTE/Other Medical - Basic Research		347
RAYEX CORP	Maryland	ARMY	RDTE/Other Medical - Basic Research		320
RESEARCH TRIANGLE INSTITUTE	N Carolina	ARMY	RDTE/Other Medical - Basic Research		359
RIDGECOM	Penn	ARMY	RDTE/Other Medical - Basic Research		50

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ROCHESTER PHOTONICS CORP	New York	ARMY	RDTE/Other Medical - Basic Research	50
SATCON TECHNOLOGY CORPORATION	Mass	ARMY	RDTE/Other Medical - Basic Research	50
SCIENCE APPLICATIONS INTL CORP	Virginia	ARMY	RDTE/Other Medical - Basic Research	2,466
SCOTGEN LTE	UNITED KIN	ARMY	RDTE/Other Medical - Basic Research	189
SCRIPPS CLINIC RES FOUNDATION	California	ARMY	RDTE/Other Medical - Basic Research	78
SOUTHERN RESEARCH INSTITUTE	Alabama	ARMY	RDTE/Other Medical - Basic Research	31
SOUTHWEST FOUNDATION	Texas	ARMY	RDTE/Other Medical - Basic Research	86
SRI INTERNATIONAL	California	ARMY	RDTE/Other Medical - Basic Research	256
STATE UNIVERSITY OF NEW YORK	New York	ARMY	RDTE/Other Medical - Basic Research	60
STEADFAST INCORPORATED	Mass	ARMY	RDTE/Other Medical - Basic Research	282
STEROIDS LTD	Illinois	ARMY	RDTE/Other Medical - Basic Research	144
TECHNICAL RESEARCH ASSOCIATES	Utah	ARMY	RDTE/Other Medical - Basic Research	50
UNIVERSITY OF ALABAMA	Alabama	ARMY	RDTE/Other Medical - Basic Research	247
UNIVERSITY OF CALIFORNIA	California	ARMY	RDTE/Other Medical - Basic Research	677
UNIVERSITY OF CINCINNATI	Ohio	ARMY	RDTE/Other Medical - Basic Research	134
UNIVERSITY OF COLORADO	Colorado	ARMY	RDTE/Other Medical - Basic Research	130
UNIVERSITY OF IOWA THE	Iowa	ARMY	RDTE/Other Medical - Basic Research	188
UNIVERSITY OF LOUISVILLE	Kentucky	ARMY	RDTE/Other Medical - Basic Research	100
UNIVERSITY OF MARYLAND	Maryland	ARMY	RDTE/Other Medical - Basic Research	317
UNIVERSITY OF MASSACHUSETTS	Mass	ARMY	RDTE/Other Medical - Basic Research	630
UNIVERSITY OF MEDICINE	New Jersey	ARMY	RDTE/Other Medical - Basic Research	480
UNIVERSITY OF MICHIGAN	Michigan	ARMY	RDTE/Other Medical - Basic Research	165
UNIVERSITY OF MINNESOTA	Minnesota	ARMY	RDTE/Other Medical - Basic Research	6
UNIVERSITY OF NORTH TEXAS	Texas	ARMY	RDTE/Other Medical - Basic Research	96

AN91 (CONTINUED)

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AN91 (CONTINUED)

UNIVERSITY OF WASHINGTON	Washington	ARMY	RDTE/Other Medical - Basic Research		203
UNIVERSITY OF WCONSIN SYSTEM	Wisconsin	ARMY	RDTE/Other Medical - Basic Research		121
VIPONT PHARMACEUTICAL	Colorado	ARMY	RDTE/Other Medical - Basic Research		115
WASHINGTON UNIVERSITY	Missouri	ARMY	RDTE/Other Medical - Basic Research		442
WEIZMANN INSTITUTE THE	ISRAEL	ARMY	RDTE/Other Medical - Basic Research		271
R&D TOTAL					18,304
AN92 AMERICAN INST BIOLOGCL SCIENCE	D.C.	ARMY	RDTE/Other Medical - Exploratory Developme		200
AUBURN UNIVERSITY	Alabama	ARMY	RDTE/Other Medical - Exploratory Developme		43
BIO TECHNOLOGY GENERAL CORP	New York	ARMY	RDTE/Other Medical - Exploratory Developme		153
CALSPAN CORPORATION	Ohio	USAF	RDTE/Other Medical - Exploratory Developme		450
CARDINAL SCIENTIFIC	Maryland	ARMY	RDTE/Other Medical - Exploratory Developme		63
CATHOLIC UNIVERSITY OF AMERICA	D.C.	ARMY	RDTE/Other Medical - Exploratory Developme		878
DUKE UNIVERSITY	N Carolina	ARMY	RDTE/Other Medical - Exploratory Developme		164
DUPHAR BV	NETHERLAND	ARMY	RDTE/Other Medical - Exploratory Developme		3,046
EG&G SPECIAL PROJECTS	New Mexico	ARMY	RDTE/Other Medical - Exploratory Developme		1,362
ENZON INC	New Jersey	ARMY	RDTE/Other Medical - Exploratory Developme		230 -
GAMBLE JAMES N INST MED RES	Ohio	ARMY	RDTE/Other Medical - Exploratory Developme		31
GEORGETOWN UNIVERSITY	D.C.	ARMY	RDTE/Other Medical - Exploratory Developme		206
GEORGIA TECH RESEARCH CORP	Georgia	ARMY	RDTE/Other Medical - Exploratory Developme		56
GORGAS MEMORIAL INSTITUTE	Maryland	ARMY	RDTE/Other Medical - Exploratory Developme		58
GULF COAST RESEARCH LABORATORY	Miss	ARMY	RDTE/Other Medical - Exploratory Developme		83
HARVARD UNIVERSITY	Mass	ARMY	RDTE/Other Medical - Exploratory Developme		151
HARVEY MUDD COLLEGE	California	ARMY	RDTE/Other Medical - Exploratory Developme		32
HAWAII BIOTECHNOLOGY GROUP	Hawaii	ARMY	RDTE/Other Medical - Exploratory Developme		61

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FISCAL YEAR 1991

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AN92 (CONTINUED)					
	HEALTH RESEARCH INC	New York	ARMY	RDTE/Other Medical - Exploratory Developme	136
	IMPERIAL COLLEGE OF SCIENCE &	UNITED KIN	ARMY	RDTE/Other Medical - Exploratory Developme	59
	ISRAEL INST FOR BIOLOGICAL RES	ISRAEL	ARMY	RDTE/Other Medical - Exploratory Developme	177
	JAYCOR	California	ARMY	RDTE/Other Medical - Exploratory Developme	1,063
	JOHNS HOPKINS UNIVERSITY	Maryland	ARMY	RDTE/Other Medical - Exploratory Developme	667
	LOUISIANA STATE UNIVERSITY	Louisiana	ARMY	RDTE/Other Medical - Exploratory Developme	
	LOYOLA UNIVERSITY OF CHICAGO	Illinois	ARMY	RDTE/Other Medical - Exploratory Developme	51-
	MEDICAL COLLEGE OF PA	Penn	ARMY	RDTE/Other Medical - Exploratory Developme	97
	MOLECULAR VACCINES INC	Maryland	ARMY	RDTE/Other Medical - Exploratory Developme	482
	NATURAL ENVIRONMTL RSCH COUNCI	UNITED KIN	ARMY	RDTE/Other Medical - Exploratory Developme	45
	OHIO UNIVERSITY	Ohio	ARMY	RDTE/Other Medical - Exploratory Developme	159
	OHIO WESLEYAN UNIVERSITY	Ohio	ARMY	RDTE/Other Medical - Exploratory Developme	136
	OKLAHOMA STATE UNIVERSITY	Oklahoma	ARMY	RDTE/Other Medical - Exploratory Developme	130
	OREGON HLTH SONES UNIVERSITY	Oregon	ARMY	RDTE/Other Medical - Exploratory Developme	137
	PENNSYLVANIA STATE UNIV INC	Penn	ARMY	RDTE/Other Medical - Exploratory Developme	41
	PURDUE UNIVERSITY	Indiana	ARMY	RDTE/Other Medical - Exploratory Developme	125
	QUESTECH INC	Ohio	USAF	RDTE/Other Medical - Exploratory Developme	91
	RESEARCH TRIANGLE INSTITUTE	N Carolina	ARMY	RDTE/Other Medical - Exploratory Developme	481
	ROCKEFELLER UNIVERSITY	New York	ARMY	RDTE/Other Medical - Exploratory Developme	142
	SCRIPPS CLINIC RES FOUNDATION	California	ARMY	RDTE/Other Medical - Exploratory Developme	298
	SLOAN KETTERING INSTITUTE	New York	ARMY	RDTE/Other Medical - Exploratory Developme	211
	SOUTHERN ILLINOIS UNIVERSITY	Illinois	ARMY	RDTE/Other Medical - Exploratory Developme	35
	SOUTHERN RESEARCH INSTITUTE	Alabama	ARMY	RDTE/Other Medical - Exploratory Developme	2,029
	SRI INTERNATIONAL	California	ARMY	RDTE/Other Medical - Exploratory Developme	688

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DES RIPTION	
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AN92 (CONTINUED)

STATE UNIVERSITY OF NEW YORK	New York	ARMY	RDTE/Other Medical	- Exploratory Developme	\$ 93
STEVENS ASH INC	Michigan	ARMY	RDTE/Other Medical	- Exploratory Developme	132
THOMAS JEFFERSON UNIVERSITY	Penn	ARMY	RDTE/Other Medical	- Exploratory Developme	62
TUFTS UNIVERSITY	Mass	ARMY	RDTE/Other Medical	- Exploratory Developme	138-
UNIVERSAL ENERGY SYSTEMS INC	Alabama	ARMY	RDTE/Other Medical	- Exploratory Developme	373
	Ohio	ARMY	RDTE/Other Medical	- Exploratory Developme	32
					405
CONTRACTOR TOTAL					
UNIVERSITY NC AT CHAPEL HL	N Carolina	ARMY	RDTE/Other Medical	- Exploratory Developme	139
UNIVERSITY OF ALABAMA	Alabama	ARMY	RDTE/Other Medical	- Exploratory Developme	102
UNIVERSITY OF CALIFORNIA	California	ARMY	RDTE/Other Medical	- Exploratory Developme	209
UNIVERSITY OF CINCINNATI	Ohio	ARMY	RDTE/Other Medical	- Exploratory Developme	54
UNIVERSITY OF COLORADO	Colorado	ARMY	RDTE/Other Medical	- Exploratory Developme	109
UNIVERSITY OF GEORGIA	Georgia	ARMY	RDTE/Other Medical	- Exploratory Developme	192
UNIVERSITY OF ILLINOIS	Illinois	ARMY	RDTE/Other Medical	- Exploratory Developme	163
UNIVERSITY OF KANSAS	Kansas	ARMY	RDTE/Other Medical	- Exploratory Developme	175
UNIVERSITY OF MASSACHUSETTS	Mass	ARMY	RDTE/Other Medical	- Exploratory Developme	380
UNIVERSITY OF MIAMI INC	Florida	ARMY	RDTE/Other Medical	- Exploratory Developme	951
UNIVERSITY OF MINNESOTA	Minnesota	ARMY	RDTE/Other Medical	- Exploratory Developme	120
UNIVERSITY OF MISSISSIPPI	Miss	ARMY	RDTE/Other Medical	- Exploratory Developme	44
UNIVERSITY OF NORTH DAKOTA	N Dakota	ARMY	RDTE/Other Medical	- Exploratory Developme	70
UNIVERSITY OF SAN FRANCISCO	California	ARMY	RDTE/Other Medical	- Exploratory Developme	36
UNIVERSITY OF SOUTH CAROLINA	S Carolina	ARMY	RDTE/Other Medical	- Exploratory Developme	73
UNIVERSITY OF SOUTHERN MISSISS	Miss	ARMY	RDTE/Other Medical	- Exploratory Developme	69
UNIVERSITY OF TENNESSEE	Tennessee	ARMY	RDTE/Other Medical	- Exploratory Developme	80-

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AN92 (CONTINUED)					
	UNIVERSITY OF TEXAS ARLINGTON	Texas	ARMY	RDTE/Other Medical - Exploratory Developme	60
	UNIVERSITY OF VIRGINIA	Virginia	ARMY	RDTE/Other Medical - Exploratory Developme	197
	UNIVERSITY OF WISCONSIN SYSTEM	Wisconsin	ARMY	RDTE/Other Medical - Exploratory Developme	105
	UNIVERSITY OF WYOMING	Wyoming	ARMY	RDTE/Other Medical - Exploratory Developme	238
	VIRGINIA COMMONWEALTH UNIV	Virginia	ARMY	RDTE/Other Medical - Exploratory Developme	254
	WASHINGTON UNIVERSITY	Missouri	ARMY	RDTE/Other Medical - Exploratory Developme	41
	R&D TOTAL				18,440
AN93	ABEL COMPANY	Virginia	ARMY	RDTE/Other Medical - Advanced Development	261
	AMERICAN OPTICAL CORPORATION	Mass	ARMY	RDTE/Other Medical - Advanced Development	5,229
	ANATECH LTD	Virginia	ARMY	RDTE/Other Medical - Advanced Development	224
	ANDRULIS RESEARCH CORP	Maryland	ARMY	RDTE/Other Medical - Advanced Development	74
	BATTELLE MEMORIAL INSTITUTE	Ohio	ARMY	RDTE/Other Medical - Advanced Development	5,698
	BEILINSON MEDICAL CENTER	ISRAEL	ARMY	RDTE/Other Medical - Advanced Development	123
	BIOLOGICAL RES FACULTY FACILITY	Maryland	ARMY	RDTE/Other Medical - Advanced Development	71
	BIOTECH RESEARCH LABORATORIES	Maryland	ARMY	RDTE/Other Medical - Advanced Development	500
	CANADIAN COMMERCIAL CORP	CANADA	ARMY	RDTE/Other Medical - Advanced Development	300
	DUKE UNIVERSITY	N Carolina	ARMY	RDTE/Other Medical - Advanced Development	55-
	DYNACORP	Maryland	ARMY	RDTE/Other Medical - Advanced Development	2,093
	EER SYSTEMS CORPORATION	Virginia	ARMY	RDTE/Other Medical - Advanced Development	631
	EVAPORATED COATINGS INC	Penn	ARMY	RDTE/Other Medical - Advanced Development	99
	GORGAS MEMORIAL INSTITUTE	Maryland	ARMY	RDTE/Other Medical - Advanced Development	40
	GUILD ASSOCIATES INC	Ohio	ARMY	RDTE/Other Medical - Advanced Development	1,474
	HARVARD UNIVERSITY	Mass	ARMY	RDTE/Other Medical - Advanced Development	916
	HUNTINGDON RESEARCH CENTER	UNITED KIN	ARMY	RDTE/Other Medical - Advanced Development	208

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AN93 (CONTINUED)	ICN BIOMEDICALS INC	Virginia	ARMY	RDTE/Other Medical - Advanced Development	68
	MASSACHSETTS INST OF TECHNOLOGY	Mass	ARMY	RDTE/Other Medical - Advanced Development	158
	MICHIGAN STATE OF	Michigan	ARMY	RDTE/Other Medical - Advanced Development	16,860
	N E D H CORP	Mass	ARMY	RDTE/Other Medical - Advanced Development	447
	NEW MEXICO STATE UNIVERSITY	New Mexico	ARMY	RDTE/Other Medical - Advanced Development	155
	PATHOLOGY ASSOCIATES INC	Maryland	ARMY	RDTE/Other Medical - Advanced Development	143
	PHARM ECO LABORATORIES INC	California	ARMY	RDTE/Other Medical - Advanced Development	374
	PHARMACIA RESEARCH INT'L. INC.	Penn	ARMY	RDTE/Other Medical - Advanced Development	97
	PORTON INTERNATIONAL INC	UNITED KIN	ARMY	RDTE/Other Medical - Advanced Development	7,615
	PROMED TRADING, S.A.	PANAMA	ARMY	RDTE/Other Medical - Advanced Development	300
	QUESTECH INC	Ohio	USAF	RDTE/Other Medical - Advanced Development	496
	RESEARCH TRIANGLE INSTITUTE	N Carolina	ARMY	RDTE/Other Medical - Advanced Development	5
	SALK INST FOR BLGICAL STUDIES	Penn	ARMY	RDTE/Other Medical - Advanced Development	8,999
	SCRIPPS CLINIC RES FOUNDATION	California	ARMY	RDTE/Other Medical - Advanced Development	250
	SHERIKON INC	Maryland	ARMY	RDTE/Other Medical - Advanced Development	1,983
	SOUTHERN RESEARCH INSTITUTE	Alabama	ARMY	RDTE/Other Medical - Advanced Development	35-
	SOUTHWEST FOUNDATION	Texas	ARMY	RDTE/Other Medical - Advanced Development	217
	SOUTHWEST RESEARCH ASSOCIATES	California	NAVY	RDTE/Other Medical - Advanced Development	49
	SRI INTERNATIONAL	California	ARMY	RDTE/Other Medical - Advanced Development	323
	STARKS ASSOCIATES INC	New York	ARMY	RDTE/Other Medical - Advanced Development	341
	STERIMATICS CORPORATION	Mass	ARMY	RDTE/Other Medical - Advanced Development	13,171
	STEVENS ASH INC	Michigan	ARMY	RDTE/Other Medical - Advanced Development	357
	TEL AVIV UNIVERSITY	ISRAEL	ARMY	RDTE/Other Medical - Advanced Development	141
	UNIVERSITY OF ALABAMA	Alabama	ARMY	RDTE/Other Medical - Advanced Development	294

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AN93 (CONTINUED)

UNIVERSITY OF CALIFORNIA	California	ARMY	RDTE/Other Medical	- Advanced Development	\$ 1,030
UNIVERSITY OF DAYTON INC	Ohio	USAF	RDTE/Other Medical	- Advanced Development	108
UNIVERSITY OF ILLINOIS	Illinois	ARMY	RDTE/Other Medical	- Advanced Development	195
UNIVERSITY OF MINNESOTA	Minnesota	ARMY	RDTE/Other Medical	- Advanced Development	141
UNIVERSITY OF SOUTH FLORIDA	Florida	ARMY	RDTE/Other Medical	- Advanced Development	132
UNIVERSITY OF UTAH	Utah	ARMY	RDTE/Other Medical	- Advanced Development	134
UNIVERSITY OF WASHINGTON	Washington	ARMY	RDTE/Other Medical	- Advanced Development	102
UNIVERSITY OF WISCONSIN SYSTEM	Wisconsin	ARMY	RDTE/Other Medical	- Advanced Development	95
UTAH STATE UNIVERSITY	Utah	ARMY	RDTE/Other Medical	- Advanced Development	727
WASHINGTON UNIVERSITY	Missouri	ARMY	RDTE/Other Medical	- Advanced Development	113
WORLDWIDE BIOLOGICALS INC	Ohio	ARMY	RDTE/Other Medical	- Advanced Development	106
YALE UNIVERSITY	Conn	ARMY	RDTE/Other Medical	- Advanced Development	49
R&D TOTAL					73,626
AN94 DUPHAR BV	NETHERLAND	ARMY	RDTE/Other Medical	- Engineering Developme	3,903
NEW HORIZONS DIAGNOSTICS CORP	Maryland	ARMY	RDTE/Other Medical	- Engineering Developme	651
ROHM & HAAS COMPANY	Penn	ARMY	RDTE/Other Medical	- Engineering Developme	184
SRI INTERNATIONAL	California	ARMY	RDTE/Other Medical	- Engineering Developme	50
UNIVERSITY OF MARYLAND	Maryland	ARMY	RDTE/Other Medical	- Engineering Developme	1,463
	CHILE	ARMY	RDTE/Other Medical	- Engineering Developme	263
CONTRACTOR TOTAL					1,726
R&D TOTAL					6,514
AN95 I I T RESEARCH INSTITUTE	Illinois	ARMY	RDTE/Other Medical	- Operational Systems D	165
AP22 MAXWELL LABORATORIES INC	California	USAF	RDTE/Natural Resources	- Land - Explor Dev	80
PURDUE UNIVERSITY	Indiana	ARMY	RDTE/Natural Resources	- Land - Explor Dev	54

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AP22	(CONTINUED)				
	TELEDYNE INDUSTRIES INC	Virginia	USAF	RDTE/Natural Resources - Land - Explor Dev	442
	UNIVERSITY OF ILLINOIS	Illinois	ARMY	RDTE/Natural Resources - Land - Explor Dev	408
	UNIVERSITY OF OKLAHOMA	Oklahoma	ARMY	RDTE/Natural Resources - Land - Explor Dev	186
	WESTON ROY F INC	Penn	ARMY	RDTE/Natural Resources - Land - Explor Dev	386
	WOODWARD-CLYDE CONSULTANTS	Colorado	ARMY	RDTE/Natural Resources - Land - Explor Dev	248
	R&D TOTAL				1,804
AP51	HARBOR BR OCEANOGRAPHIC INSTN	Florida	NAVY	RDTE/Natural Resources-Marine-Basic Resear	141
	WOODS HOLE OCNGRPHIC INSTUTE	Mass	ARMY	RDTE/Natural Resources-Marine-Basic Resear	46
	R&D TOTAL				187
AP52	SCIENCE APPLICATIONS INTL CORP	California	NAVY	RDTE/Natural Resources-Marine-Exploratory	33
	TEXAS A & M RESEARCH FDN	Texas	NAVY	RDTE/Natural Resources-Marine-Exploratory	45
	R&D TOTAL				78
AP53	SCIENCE APPLICATIONS INTL CORP	California	NAVY	RDTE/Natural Resources-Marine-Advanced Dev	2,100
		Hawaii	NAVY	RDTE/Natural Resources-Marine-Advanced Dev	369
	CONTRACTOR TOTAL				2,469
	SEACO INC	Hawaii	NAVY	RDTE/Natural Resources-Marine-Advanced Dev	54
	R&D TOTAL				2,523
AP91	BIOSONICS INC	Washington	OCE	RDTE/Natural Resources-Other-Basic Researc	144
AR11	BOEING COMPANY THE	Washington	USAF	RDTE/Space - Aeronautics - Basic Research	4,721
	GENERAL DYNAMICS CORPORATION	California	USAF	RDTE/Space - Aeronautics - Basic Research	5,062
	GENERAL ELECTRIC COMPANY	New Jersey	USAF	RDTE/Space - Aeronautics - Basic Research	97
	HUGHES AIRCRAFT COMPANY	California	USAF	RDTE/Space - Aeronautics - Basic Research	100
	LOCKHEED MISSILES & SPACE CO	California	USAF	RDTE/Space - Aeronautics - Basic Research	100
	MARTIN MARIETTA CORPORATION	Colorado	USAF	RDTE/Space - Aeronautics - Basic Research	5,336

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION		
AR11	(CONTINUED)					
	PHOTO METRIC INC	Mass	USAF	RDTE/Space - Aeronautics - Basic Research	\$	240
	PHOTON RESEARCH ASSOCIATES	California	USAF	RDTE/Space - Aeronautics - Basic Research		1,969
	R&D TOTAL					17,625
AR12	PHYSICAL OPTICS CORPORATION	California	USAF	RDTE/Space - Aeronautics - Exploratory Dev		50
AR13	ALLIED SIGNAL AEROSPACE CO	Maryland	NAVY	RDTE/Space - Aeronautics - Advanced Develo		2,830
	BARRIOS TECHNOLOGY INC	Texas	NAVY	RDTE/Space - Aeronautics - Advanced Develo		2,679
	GENERAL ELECTRIC COMPANY	New Jersey	USAF	RDTE/Space - Aeronautics - Advanced Develo		1,268
	J R S RESEARCH LABORATORIES	California	NAVY	RDTE/Space - Aeronautics - Advanced Develo		376
	LOCKHEED MISSILES & SPACE CO	California	USAF	RDTE/Space - Aeronautics - Advanced Develo		1,268
	R&D TOTAL					8,421
AR21	COMPUTATIONAL PHYSICS INC	Virginia	NAVY	RDTE/Space-Science Applications-Basic Rese		460
	NORTHWESTERN UNIVERSITY	Illinois	NAVY	RDTE/Space-Science Applications-Basic Rese		550
	TRW INC	California	USAF	RDTE/Space-Science Applications-Basic Rese		87-
	R&D TOTAL					923
AR22	CALIFORNIA INST OF TECHNOLOGY	California	USAF	RDTE/Space-Science Applications-Explor Dev		29
	LOCKHEED MISSILES & SPACE CO	California	USAF	RDTE/Space-Science Applications-Explor Dev		120
	MAYFLOWER COMMUNICATION CORP	Mass	NAVY	RDTE/Space-Science Applications-Explor Dev		50
	STANFORD UNIVERSITY	California	USAF	RDTE/Space-Science Applications-Explor Dev		76
	R&D TOTAL					275
AR23	GRUMMAN AEROSPACE CORPORATION	New York	USAF	RDTE/Space-Science Applications-Advanced D		405,120
	LOCKHEED MISSILES & SPACE CO	California	USAF	RDTE/Space-Science Applications-Advanced D		41,242
	R&D TOTAL					446,362
AR24	COLSA INC	Texas	ARMY	RDTE/Space-Science Applications-Engineerin		100
AR25	AEROJET	California	USAF	RDTE/Space-Science Applications-Op Systems		1,628

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AR25 (CONTINUED)					
	AEROSPACE CORPORATION	California	USAF	RDTE/Space-Science Applications-Op Systems	395,136
	GENERAL DYNAMICS CORPORATION	California	USAF	RDTE/Space-Science Applications-Op Systems	55-
	GENERAL ELECTRIC COMPANY	New Jersey	USAF	RDTE/Space-Science Applications-Op Systems	9,250
	INTERNATIONAL BUS MCHS CORP	Colorado	USAF	RDTE/Space-Science Applications-Op Systems	1,795
	TRW INC	California	USAF	RDTE/Space-Science Applications-Op Systems	53,067
R&D TOTAL					460,821
AR32	AEROJET	California	USAF	RDTE/Space Flight - Exploratory Development	478
	MCDONNELL DOUGLAS SPACE SYS CO	California	USAF	RDTE/Space Flight - Exploratory Development	243
	ROCKWELL INTERNATIONAL CORP	California	USAF	RDTE/Space Flight - Exploratory Development	489
R&D TOTAL					1,210
AR33	ENGINEERING TECHNOLOGIES INC	Virginia	USAF	RDTE/Space Flight - Advanced Development	615
	MCDONNELL DOUGLAS SPACE SYS CO	California	USAF	RDTE/Space Flight - Advanced Development	193,284
R&D TOTAL					193,899
AR34	GENERAL DYNAMICS CORPORATION	California	USAF	RDTE/Space Flight - Engineering Development	110,486
	MCDONNELL DOUGLAS SPACE SYS CO	California	USAF	RDTE/Space Flight - Engineering Development	73,514
	ORBITAL SCIENCES CORPORATION	Virginia	USAF	RDTE/Space Flight - Engineering Development	12,915
R&D TOTAL					196,915
AR35	MARTIN MARIETTA CORPORATION	Colorado	USAF	RDTE/Space Flight - Operations Systems Dev	2,886
AR41	GTE GOVERNMENT SYSTEMS CORP	California	USAF	RDTE/Space Op - Tracking & Data Acq-Basic	218
	LOGICON INC	California	USAF	RDTE/Space Op - Tracking & Data Acq-Basic	382
	MC MAHAN ELECTRO OPTICS INC	Florida	USAF	RDTE/Space Op - Tracking & Data Acq-Basic	143
	RESEARCH & DEV LABORATORIES	California	USAF	RDTE/Space Op - Tracking & Data Acq-Basic	935
	SPARTA INC	California	USAF	RDTE/Space Op - Tracking & Data Acq-Basic	175
R&D TOTAL					1,853

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AR42	J J M SYSTEMS INC	Penn	NAVY	RDTE/Space Op - Applied Research & Expl De	1,247
	RESEARCH & DEV LABORATORIES	California	USAF	RDTE/Space Op - Applied Research & Expl De	725
	R&D TOTAL				1,972
AR43	UNIVERSITY OF ALABAMA	Alabama	USAF	RDTE/Space Op - Trckng & Data Acq-Advanced	80
AR44	INTERFEROMETRICS INC	D.C.	NAVY	RDTE/Space Op - Trckng & Data Acq-Engineer	191
	INTERNATIONAL BUS MCHS CORP	Maryland	USAF	RDTE/Space Op - Trckng & Data Acq-Engineer	10,588
	SCIENCE APPLICATIONS INTL CORP	California	USAF	RDTE/Space Op - Trckng & Data Acq-Engineer	1,395
	TEXAS INSTRUMENTS INC	Texas	USAF	RDTE/Space Op - Trckng & Data Acq-Engineer	193
	R&D TOTAL				12,367
AR45	INTERNATIONAL BUS MCHS CORP	Colorado	USAF	RDTE/Space Op-Trckng & Data Acq-Op Systems	15,759
	CONTRACTOR TOTAL	Maryland	USAF	RDTE/Space Op-Trckng & Data Acq-Op Systems	263
	LITTON SYSTEMS INC	California	USAF	RDTE/Space Op-Trckng & Data Acq-Op Systems	16,022
	RESEARCH & DEV LABORATORIES	California	USAF	RDTE/Space Op-Trckng & Data Acq-Op Systems	12,291
	R&D TOTAL				74
AR46	DYNACORP	New Mexico	ARMY	RDTE/Space Op-Tracking & Data Acq-Mgmt & S	28,387
AR61	LOCKHEED MISSILES & SPACE CO	California	USAF	RDTE/Space-Station-Basic Research	3,712
	UNITED TECHNOLOGIES CORP	Florida	NAVY	RDTE/Space-Station-Basic Research	4,965
	R&D TOTAL				340
AR62	AUBURN UNIVERSITY	Alabama	NAVY	RDTE/Space-Station-Exploratory Development	5,305
AR91	LOCKHEED MISSILES & SPACE CO	California	USAF	RDTE/Space - Other - Basic Research	1,008
	MARTIN MARIETTA CORPORATION	Colorado	USAF	RDTE/Space - Other - Basic Research	1,165
	MASSACHUSETTS TECHNOLOGICAL LAB	Maryland	ARMY	RDTE/Space - Other - Basic Research	50
	ROCKWELL INTERNATIONAL CORP	California	USAF	RDTE/Space - Other - Basic Research	1,165
	SOLAR ELECTRIC CO INC	Maryland	ARMY	RDTE/Space - Other - Basic Research	30
	TRW INC	California	USAF	RDTE/Space - Other - Basic Research	1,165

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AR91 (CONTINUED)					
	WRIGHT STATE UNIVERSITY	Ohio	USAF	RDTE/Space - Other - Basic Research	32
R&D TOTAL					4,772
AR92	ATMOSPHERIC ENVIRONMENTAL RES	Mass	USAF	RDTE/Space - Other - Exploratory Developme	50
	GINER INC	Mass	USAF	RDTE/Space - Other - Exploratory Developme	54
	HELIX TECHNOLOGY CORPORATION	Mass	USAF	RDTE/Space - Other - Exploratory Developme	96
	LOCKHEED MISSILES & SPACE CO	California	USAF	RDTE/Space - Other - Exploratory Developme	1,800
	PACIFIC ADVANCED	California	USAF	RDTE/Space - Other - Exploratory Developme	57
	PHYSICAL SCIENCES INC	Mass	USAF	RDTE/Space - Other - Exploratory Developme	50
	SCHAFER W J ASSOCIATES INC	Mass	NAVY	RDTE/Space - Other - Exploratory Developme	196
	SCIENCE APPLICATIONS INTL CORP	California	USAF	RDTE/Space - Other - Exploratory Developme	5,337
	SPARTA INC	California	USAF	RDTE/Space - Other - Exploratory Developme	65
	THOMAS SCIFERS INC	California	USAF	RDTE/Space - Other - Exploratory Developme	164
	TRW INC	California	USAF	RDTE/Space - Other - Exploratory Developme	4,763
R&D TOTAL					12,632
AR93	LOCKHEED MISSILES & SPACE CO	California	USAF	RDTE/Space - Other - Advanced Development	12,477
	LOGICON INC	California	USAF	RDTE/Space - Other - Advanced Development	394-
	MARTIN MARIETTA CORPORATION	Colorado	USAF	RDTE/Space - Other - Advanced Development	31,049
	NICHOLS RESEARCH CORPORATION	Alabama	USAF	RDTE/Space - Other - Advanced Development	334
	ROCKWELL INTERNATIONAL CORP	California	USAF	RDTE/Space - Other - Advanced Development	3,438
	SPARTA INC	California	USAF	RDTE/Space - Other - Advanced Development	6,499
R&D TOTAL					53,403
AR94	BOEING AEROSPACE & ELECTRONICS	Washington	USAF	RDTE/Space - Other - Engineering Developme	100-
	LOCKHEED MISSILES & SPACE CO	California	USAF	RDTE/Space - Other - Engineering Developme	227
	LTV AEROSPACE & DEFENSE CO	Texas	USAF	RDTE/Space - Other - Engineering Developme	50

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## PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

FISCAL YEAR 1991

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION		\$
AR94 (CONTINUED)						
	ROCKWELL INTERNATIONAL CORP	California	USAF	RDTE/Space - Other - Engineering Developme		816
R&D TOTAL						993
AR95	DRAPER CHARLES STARK LAB INC	Mass	USAF	RDTE/Space - Other - Operational Systems D		716
	SOFTWARE ENGRG ASSOCIATES	California	USAF	RDTE/Space - Other - Operational Systems D		150
	SPACE APPLICATIONS CORPORATION	California	USAF	RDTE/Space - Other - Operational Systems D		5,673
	UNIVERSITY OF COLORADO	Colorado	USAF	RDTE/Space - Other - Operational Systems D		60
R&D TOTAL						6,599
AR96	ADAPTIVE SENSORS INC	California	USAF	RDTE/Space - Other - Management & Support		181
		Texas	USAF	RDTE/Space - Other - Management & Support		190
	CONTRACTOR TOTAL					371
	ATMOSPHERIC SIMULATION TSTG RES	Colorado	USAF	RDTE/Space - Other - Management & Support		275
	B D SYSTEMS INC	California	USAF	RDTE/Space - Other - Management & Support		359
	BERNER LANPHIER & ASSOCIATES	Maryland	USAF	RDTE/Space - Other - Management & Support		49
	CENTER FOR STRATEGIC STUDY	Texas	USAF	RDTE/Space - Other - Management & Support		50
	ENGINEERING TECHNOLOGIES INC	Virginia	USAF	RDTE/Space - Other - Management & Support		165
	GENERAL DYNAMICS CORPORATION	California	USAF	RDTE/Space - Other - Management & Support		64-
	INDEPENDENT RISK ASSESSMENT	California	USAF	RDTE/Space - Other - Management & Support		50
	IRVINE TECHNOLOGY GROUP INC	California	USAF	RDTE/Space - Other - Management & Support		200
	MICROCOSM	California	USAF	RDTE/Space - Other - Management & Support		29
	NAVSYCS CORP	California	USAF	RDTE/Space - Other - Management & Support		49
	ORBITAL SYSTEMS	Maryland	USAF	RDTE/Space - Other - Management & Support		173
	RADIX TECHNOLOGIES	California	USAF	RDTE/Space - Other - Management & Support		49
	SPIRE CORPORATION	Mass	USAF	RDTE/Space - Other - Management & Support		337
	SYSTEMS & LOGISTICS CORP	California	USAF	RDTE/Space - Other - Management & Support		1,293

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AR96 (CONTINUED)					
	TECHNOMICS INC	California	USAF	RDTE/Space - Other - Management & Support	392
	TECOLOTE RESEARCH INC	California	USAF	RDTE/Space - Other - Management & Support	109
	THOMAS SCIFERS INC	California	USAF	RDTE/Space - Other - Management & Support	198
	TOYON RESEARCH CORP	California	USAF	RDTE/Space - Other - Management & Support	46
	TRW INC	California	USAF	RDTE/Space - Other - Management & Support	737
	UNIVERSITY TECHNOLOGISTS INC	Oklahoma	USAF	RDTE/Space - Other - Management & Support	300
	VIASAT INC	California	USAF	RDTE/Space - Other - Management & Support	50
	R&D TOTAL				5,217
AS12	GENERAL ELECTRIC COMPANY	New Jersey	NAVY	RDTE/Transportation - Air - Exploratory De	400
AS13	SOUTHWEST RESEARCH INSTITUTE	Texas	NAVY	RDTE/Transportation - Air - Advanced Devel	845
AS15	UNITED TECHNOLOGIES CORP	Florida	ARMY	RDTE/Transportation - Air - Op Systems Dev	61
AS21	MERIT TECHNOLOGY INC	Texas	NAVY	RDTE/Transportation - Motor Veh - Basic Re	43
AS41	APPLIED COMBUSTION TECHNOLOGY	Florida	NAVY	RDTE/Transportation - Marine - Basic Resea	244
AS42	FMC CORPORATION	California	NAVY	RDTE/Transportation - Marine - Exploratory	7,137
AT11	U S COMPOSITES CORP	New York	ARMY	RDTE/Trans - Hwys-Roads-Bridges - Basic Re	91-
AT12	DILLON CONSTRUCTION INC	PANAMA	ARMY	RDTE/Trans - Hwys-Roads-Bridges - Explor D	418
AT14	GENERAL DYNAMICS CORPORATION	Michigan	ARMY	RDTE/Trans - Hwys-Roads-Bridges - Engr Dev	2,534
AT95	COMPUTER SCIENCES CORPORATION	Virginia	ARMY	RDTE/Trans - Other - Operational Systems D	4,295
AV21	UNITED STATES DEPT OF INTERIOR	Idaho	NAVY	RDTE/Mining Equipment-Surface-Basic Resear	50
AV71	RENSSELAER POLYTECHNIC INST	New York	ARMY	RDTE/Mining - Metallurgical - Basic Resear	26
AV92	LOCUS INC	D.C.	NAVY	RDTE/Other Mining Activities - Exploratory	184
		Penn	NAVY	RDTE/Other Mining Activities - Exploratory	66
	CONTRACTOR TOTAL				250
AZ11	A P A OPTICS INC	Minnesota	NAVY	RDTE/Other Research & Development-Basic Re	50

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## PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

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(AMOUNTS IN THOUSANDS)

CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION		
AZ11 (CONTINUED)					
ADTECH SYSTEM RESEARCH INC	Ohio	USAF	RDTE/Other Research & Development-Basic Re	\$	140
ADVANCED COMMUNICATIONS SYSTEMS	Virginia	NAVY	RDTE/Other Research & Development-Basic Re		630
ADVANCED TECHNOLOGY & RESEARCH	Maryland	ARMY	RDTE/Other Research & Development-Basic Re		50
ADVANCED TECHNOLOGY MATERIALS	Conn	ARMY	RDTE/Other Research & Development-Basic Re		252
		NAVY	RDTE/Other Research & Development-Basic Re		62
STATE TOTAL					314
AERODYNE RESEARCH INC	Mass	ARMY	RDTE/Other Research & Development-Basic Re		112
AETECH INC	California	USAF	RDTE/Other Research & Development-Basic Re		594
ALFORD ROGERS CULLMORE CONCEP	Florida	OCE	RDTE/Other Research & Development-Basic Re		134
ALLIANT TECHSYSTEMS INC	Minnesota	ARMY	RDTE/Other Research & Development-Basic Re		133
ALLIED SIGNAL AEROSPACE CO	Maryland	NAVY	RDTE/Other Research & Development-Basic Re		28,662
ALLIED SIGNAL INC	California	ARMY	RDTE/Other Research & Development-Basic Re		230
ALLISON H S INC	Maryland	NAVY	RDTE/Other Research & Development-Basic Re		150
AMERICAN GNC CORP	California	ARMY	RDTE/Other Research & Development-Basic Re		50
AMERICAN INST RSRCH BEHAV SCI	D.C.	ARMY	RDTE/Other Research & Development-Basic Re		148
AMERICAN RESEARCH CORP	Virginia	NAVY	RDTE/Other Research & Development-Basic Re		49
AMERICAN SCIENTIFIC CORP	Miss	ARMY	RDTE/Other Research & Development-Basic Re		27
		OCE	RDTE/Other Research & Development-Basic Re		374
STATE TOTAL					401
CONTRACTOR TOTAL					54
AMERICAN TELEPHONE & TELG CO	S Carolina	OCE	RDTE/Other Research & Development-Basic Re		602
	Virginia	OCE	RDTE/Other Research & Development-Basic Re		1,057
STATE TOTAL					446
STATE TOTAL					76
STATE TOTAL					522

## PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

FISCAL YEAR 1991

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AZ11 (CONTINUED)					
	AMHERST SYSTEMS INC	New York	USAF	RDTE/Other Research & Development-Basic Re	542
	ANALYTIC POWER CORP	Mass	ARMY	RDTE/Other Research & Development-Basic Re	50
	ANALYTIC SCIENCE CORP THE	Mass	USAF	RDTE/Other Research & Development-Basic Re	440
	ANALYTICA OF BRANFORD INC	Conn	ARMY	RDTE/Other Research & Development-Basic Re	35
	ANTHROPOLOGY RESEARCH PROJECT	Ohio	ARMY	RDTE/Other Research & Development-Basic Re	67
	APPLIED RESEARCH ASSOC INC	New Mexico	ARMY	RDTE/Other Research & Development-Basic Re	250
	APPLIED RESEARCH CORPORATION	Maryland	NAVY	RDTE/Other Research & Development-Basic Re	623
	APPLIED TECHNOLOGY ASSOCIATES	Florida	NAVY	RDTE/Other Research & Development-Basic Re	125
	APPLIED THEORY INC	California	ARMY	RDTE/Other Research & Development-Basic Re	58
	ARCHITECTURAL ENERGY CORP	Colorado	ARMY	RDTE/Other Research & Development-Basic Re	58
	ARETE ASSOCIATES	California	NAVY	RDTE/Other Research & Development-Basic Re	550
	ARIZONA STATE UNIVERSITY	Arizona	ARMY	RDTE/Other Research & Development-Basic Re	291
	ATLANTIC RESEARCH CORPORATION	Maryland	USAF	RDTE/Other Research & Development-Basic Re	630
	ATMOSPHERIC ENVIRONMENTAL RES	Mass	USAF	RDTE/Other Research & Development-Basic Re	327
	AUBURN UNIVERSITY	Alabama	ARMY OCE	RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re	29 102
			STATE TOTAL		131
	AUSTIN PEAY STATE UNIVERSITY	Tennessee	OCE	RDTE/Other Research & Development-Basic Re	35
	AUTOMATED PRECISION INC	Maryland	ARMY	RDTE/Other Research & Development-Basic Re	50
	AUTOMATION RES SYSTEMS LTD	Virginia	ARMY	RDTE/Other Research & Development-Basic Re	560
	BAKER WILFRED ENGINEERING	Texas	ARMY NAVY	RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re	363 48
			STATE TOTAL		411
	BAND LAVIS & ASSOCIATES INC	Maryland	NAVY	RDTE/Other Research & Development-Basic Re	50
	BARRINGER INSTRUMENTS INC	New Jersey	NAVY	RDTE/Other Research & Development-Basic Re	70
	BATTELLE MEMORIAL INSTITUTE	Alabama	ARMY	RDTE/Other Research & Development-Basic Re	236

## PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

FISCAL YEAR 1991

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AZ11 (CONTINUED)

Arizona	ARMY	RDTE/Other Research & Development-Basic Re	\$	64
California	ARMY	RDTE/Other Research & Development-Basic Re		471
Colorado	ARMY	RDTE/Other Research & Development-Basic Re		171
Conn	ARMY	RDTE/Other Research & Development-Basic Re		148
Delaware	ARMY	RDTE/Other Research & Development-Basic Re		111
D.C.	ARMY	RDTE/Other Research & Development-Basic Re		136
Florida	ARMY	RDTE/Other Research & Development-Basic Re		488
Georgia	ARMY	RDTE/Other Research & Development-Basic Re		59
Illinois	ARMY	RDTE/Other Research & Development-Basic Re		124
Indiana	ARMY	RDTE/Other Research & Development-Basic Re		66
Louisiana	ARMY	RDTE/Other Research & Development-Basic Re		41
Maine	ARMY	RDTE/Other Research & Development-Basic Re		36
Maryland	ARMY	RDTE/Other Research & Development-Basic Re		770
Mass	ARMY	RDTE/Other Research & Development-Basic Re		726
Michigan	ARMY	RDTE/Other Research & Development-Basic Re		183
Miss	ARMY	RDTE/Other Research & Development-Basic Re		115
Missouri	ARMY	RDTE/Other Research & Development-Basic Re		108
New Jersey	ARMY	RDTE/Other Research & Development-Basic Re		143
New Mexico	ARMY	RDTE/Other Research & Development-Basic Re		216
New York	ARMY	RDTE/Other Research & Development-Basic Re		290
N Carolina	ARMY	RDTE/Other Research & Development-Basic Re		240
Ohio	ARMY	RDTE/Other Research & Development-Basic Re		3,004
Penn	ARMY	RDTE/Other Research & Development-Basic Re		153
S Carolina	ARMY	RDTE/Other Research & Development-Basic Re		108

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## PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	DESCRIPTION	
AZ11 (CONTINUED)					
		Tennessee	ARMY	RDTE/Other Research & Development-Basic Re	46
		Texas	ARMY	RDTE/Other Research & Development-Basic Re	375
		Utah	ARMY	RDTE/Other Research & Development-Basic Re	166
		Virginia	ARMY	RDTE/Other Research & Development-Basic Re	882
		Washington	ARMY	RDTE/Other Research & Development-Basic Re	49
		Wisconsin	ARMY	RDTE/Other Research & Development-Basic Re	36
		CANADA	ARMY	RDTE/Other Research & Development-Basic Re	96
		GERMANY	ARMY	RDTE/Other Research & Development-Basic Re	88
	CONTRACTOR TOTAL				9,945
	BDM INTERNATIONAL INC	Florida	USAF	RDTE/Other Research & Development-Basic Re	120
		New Mexico	ARMY	RDTE/Other Research & Development-Basic Re	110
		Virginia	ARMY	RDTE/Other Research & Development-Basic Re	473
	CONTRACTOR TOTAL				703
	BECKENHAUER CONSTRUCTION INC	Nebraska	ARMY	RDTE/Other Research & Development-Basic Re	34
	BERKELEY RESEARCH ASSOCIATES	D.C.	NAVY	RDTE/Other Research & Development-Basic Re	380
	BOSTON COLLEGE TRUSTEES OF	Mass	USAF	RDTE/Other Research & Development-Basic Re	460
	BOSTON UNIVERSITY	Mass	ARMY	RDTE/Other Research & Development-Basic Re	180
	BOUNDARY TECHNOLOGIES INC	Illinois	NAVY	RDTE/Other Research & Development-Basic Re	48
	BRANDEIS UNIVERSITY	Mass	ARMY	RDTE/Other Research & Development-Basic Re	67
	BRITISH MARITIME TECHNOLOGY	Maryland	OCE	RDTE/Other Research & Development-Basic Re	29
	C H A M OF NORTH AMERICA INC	Alabama	NAVY	RDTE/Other Research & Development-Basic Re	111
	CAE INDUSTRIES LTD	Virginia	ARMY	RDTE/Other Research & Development-Basic Re	204
	CALIFORNIA INST OF TECHNOLOGY	California	ARMY NAVY	RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re	613 119

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## PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AZ11	(CONTINUED)				
			USAF	RDTE/Other Research & Development-Basic Re	\$ 76
		STATE TOTAL			808
	CALIFORNIA RES & TECHNOLOGY	California	ARMY	RDTE/Other Research & Development-Basic Re	724
	CALSPAN CORPORATION	New York	ARMY	RDTE/Other Research & Development-Basic Re	84
	CARNEGIE MELLON UNIVERSITY	Penn	ARMY	RDTE/Other Research & Development-Basic Re	550
	CASE WESTERN RESERVE UNIV	Ohio	ARMY	RDTE/Other Research & Development-Basic Re	49
	CATHOLIC UNIVERSITY OF AMERICA	D.C.	NAVY	RDTE/Other Research & Development-Basic Re	110
	CAULFIELD ENGINEERING	CANADA	OCE	RDTE/Other Research & Development-Basic Re	59
	CENTER FOR REMOTE SENSING	Virginia	NAVY	RDTE/Other Research & Development-Basic Re	50
	CHAMBERLIN HOTEL COMPANY	Virginia	ARMY	RDTE/Other Research & Development-Basic Re	49
	CHAPMAN RAY & ASSOCIATES	Miss	OCE	RDTE/Other Research & Development-Basic Re	32
	CHARLES EBEST CO INC	California	NAVY	RDTE/Other Research & Development-Basic Re	49
	CHASE CONSULTANTS INC	California	ARMY	RDTE/Other Research & Development-Basic Re	207
	CHENG TECHNOLOGY & SERVICES	California	NAVY	RDTE/Other Research & Development-Basic Re	60
	CHI SYSTEMS INC	Penn	NAVY	RDTE/Other Research & Development-Basic Re	187
	CHOCTAW ENGINEERING CO INC	Miss	ARMY	RDTE/Other Research & Development-Basic Re	30
	CITY UNIVERSITY OF NEW YORK	New York	ARMY	RDTE/Other Research & Development-Basic Re	70
	CLARK ATLANTA UNIVERSITY	Georgia	ARMY	RDTE/Other Research & Development-Basic Re	130
	CLEMSON UNIVERSITY	S Carolina	ARMY	RDTE/Other Research & Development-Basic Re	109
		DLA		RDTE/Other Research & Development-Basic Re	197
		OCE		RDTE/Other Research & Development-Basic Re	95
		STATE TOTAL			401
	CLEVELAND CRYSTALS INC	Ohio	NAVY	RDTE/Other Research & Development-Basic Re	50
	COE TRUMAN TECHNOLOGIES INC	Illinois	OCE	RDTE/Other Research & Development-Basic Re	81
	COLLEGE OF WILLIAM & MARY	Virginia	NAVY	RDTE/Other Research & Development-Basic Re	45

## PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AZ11 (CONTINUED)

COLORADO SCHOOL OF MINES	Colorado	ARMY	RDTE/Other Research & Development-Basic Re	\$	105
COLORADO STATE UNIVERSITY	Colorado	ARMY	RDTE/Other Research & Development-Basic Re		1,488
		OCE	RDTE/Other Research & Development-Basic Re		35
	STATE TOTAL				1,523
COLUMBIA UNIVERSITY	New York	ARMY	RDTE/Other Research & Development-Basic Re		526
COMMONWEALTH OF VIRGINIA	Virginia	ARMY	RDTE/Other Research & Development-Basic Re		100
CONTEL CORPORATION	D.C.	NAVY	RDTE/Other Research & Development-Basic Re		281
	Maryland	NAVY	RDTE/Other Research & Development-Basic Re		32
	STATE TOTAL				313
CORNELL UNIVERSITY	New York	ARMY	RDTE/Other Research & Development-Basic Re		4,143
		USAF	RDTE/Other Research & Development-Basic Re		80
		OCE	RDTE/Other Research & Development-Basic Re		48
	STATE TOTAL				4,271
GREE RESEARCH INC	N Carolina	ARMY	RDTE/Other Research & Development-Basic Re		144
CRYSTALLUME	California	NAVY	RDTE/Other Research & Development-Basic Re		225
D C W INDUSTRIES INC	California	ARMY	RDTE/Other Research & Development-Basic Re		81
DAEDALUS ENTERPRISES INC	Michigan	ARMY	RDTE/Other Research & Development-Basic Re		81
		USAF	RDTE/Other Research & Development-Basic Re		53
	STATE TOTAL				134
DAMASKOS INC	Penn	ARMY	RDTE/Other Research & Development-Basic Re		50
DAMES & MOORE	Arizona	OCE	RDTE/Other Research & Development-Basic Re		83
DARTMOUTH COLLEGE	N.H.	ARMY	RDTE/Other Research & Development-Basic Re		91
DATA RECOGNITION CORPORATION	Minnesota	ARMY	RDTE/Other Research & Development-Basic Re		331
DAVID RICHARD GRESS WRIGHT	California	ARMY	RDTE/Other Research & Development-Basic Re		86
DAVID SARNOFF RESEARCH CENTER	New Jersey	NAVY	RDTE/Other Research & Development-Basic Re		171
DAVID TRIVETT INC	Florida	NAVY	RDTE/Other Research & Development-Basic Re		176

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FISCAL YEAR 1991

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AZ11	(CONTINUED)				
	DAVIS TECHNOLOGIES	Texas	NAVY	RDTE/Other Research & Development-Basic Re	\$ 125
	DECISION SCIENCE CONSORTIUM	Virginia	ARMY	RDTE/Other Research & Development-Basic Re	185
	DEDICATED ELECTRONICS INC	N.H.	ARMY	RDTE/Other Research & Development-Basic Re	50
	DIGITAL SIGNAL CORPORATION	Virginia	NAVY	RDTE/Other Research & Development-Basic Re	40
	DIGITAL SYSTEM RESOURCES INC	Virginia	NAVY	RDTE/Other Research & Development-Basic Re	418
	DISPLAYTECH INC	Colorado	ARMY	RDTE/Other Research & Development-Basic Re	309
	DIVERSIFIED MOBILE PRODUCTS	Indiana	OCE	RDTE/Other Research & Development-Basic Re	61
	DONMAR LTD	California	USAF	RDTE/Other Research & Development-Basic Re	647
	DR. ROBERT L. BARKAU	Missouri	OCE	RDTE/Other Research & Development-Basic Re	31
	DRAPER CHARLES STARK LAB INC	Mass	NAVY	RDTE/Other Research & Development-Basic Re	94
	DUKE UNIVERSITY	N Carolina	ARMY	RDTE/Other Research & Development-Basic Re	496
	E A ENGRING SCENCE TECHNOLOGY	Maryland	OCE	RDTE/Other Research & Development-Basic Re	35
	E SYSTEMS INC	Virginia	NAVY	RDTE/Other Research & Development-Basic Re	100
	EAGLE TECHNOLOGY INC	Florida	ARMY	RDTE/Other Research & Development-Basic Re	75
	EARTH TECHNOLOGY CORP	California	ARMY	RDTE/Other Research & Development-Basic Re	140
	EBASCO SERVICES INCORPORATED	Washington	OCE	RDTE/Other Research & Development-Basic Re	76
	ECONOMIC MODELS	Penn	ARMY	RDTE/Other Research & Development-Basic Re	92
	EDISON WELDING INSTITUTE	Ohio	ARMY	RDTE/Other Research & Development-Basic Re	131
	ELECTRO OPTEK CORPORATION	California	ARMY NAVY	RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re	416 50
		STATE TOTAL			466
	ELECTROMAGNETIC APPLICATIONS	Mass	ARMY	RDTE/Other Research & Development-Basic Re	49
	ELECTRON TRANSFER TECHNOLOGIES	New Jersey	ARMY	RDTE/Other Research & Development-Basic Re	53
	EMORY UNIVERSITY	Georgia	ARMY	RDTE/Other Research & Development-Basic Re	71

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AZ11 (CONTINUED)

ENERGY COMPRESSION RES CORP	California	NAVY	RDTE/Other Research & Development-Basic Re	\$	200
ENGINE RESEARCH ASSOCIATES	Indiana	NAVY	RDTE/Other Research & Development-Basic Re		46
ENGINEERING DEVELOPMENTS	Miss	ARMY	RDTE/Other Research & Development-Basic Re		78
ENVIRONMENTAL RES INST OF MICH	Michigan	ARMY	RDTE/Other Research & Development-Basic Re		190
ENVIRONMENTAL DYNAMICS RES	Florida	OCE	RDTE/Other Research & Development-Basic Re		62
EOS TECHNOLOGIES INC	California	ARMY	RDTE/Other Research & Development-Basic Re		49
ETALON, INC	Mass	ARMY	RDTE/Other Research & Development-Basic Re		52
EVANS HAMILTON INC	Texas	OCE	RDTE/Other Research & Development-Basic Re		418
EXTERIOR WALL SYSTEMS EWS NC	New York	ARMY	RDTE/Other Research & Development-Basic Re		46
FIRE CONTROL LTD	Hawaii	ARMY	RDTE/Other Research & Development-Basic Re		26
FLORIDA ATLANTIC UNIVERSITY	Florida	OCE	RDTE/Other Research & Development-Basic Re		39
FLORIDA INST OF TECHNOLOGY	Florida	OCE	RDTE/Other Research & Development-Basic Re		116
FLORIDA MAXIMA CORP	Florida	ARMY	RDTE/Other Research & Development-Basic Re		93
FLOUROCHEM INC	California	ARMY	RDTE/Other Research & Development-Basic Re		122
		NAVY	RDTE/Other Research & Development-Basic Re		55
	STATE TOTAL				177
FLOW ANALYSIS INC	New York	ARMY	RDTE/Other Research & Development-Basic Re		84
FLOW INDUSTRIES INC	Washington	ARMY	RDTE/Other Research & Development-Basic Re		111
		NAVY	RDTE/Other Research & Development-Basic Re		310
		OCE	RDTE/Other Research & Development-Basic Re		39
	STATE TOTAL				460
FM TECHNOLOGIES INC	Virginia	NAVY	RDTE/Other Research & Development-Basic Re		550
FOSTER MILLER INC	Mass	ARMY	RDTE/Other Research & Development-Basic Re		210
		USAF	RDTE/Other Research & Development-Basic Re		101
	STATE TOTAL				311
FRONTIER TECHNOLOGY INC	California	USAF	RDTE/Other Research & Development-Basic Re		35

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AZ11 (CONTINUED)

GENERAL DYNAMICS CORPORATION	Texas	ARMY	RDTE/Other Research & Development-Basic Re	\$	448
GENERAL ELECTRIC COMPANY	Mass	ARMY	RDTE/Other Research & Development-Basic Re		4,887
	New York	ARMY	RDTE/Other Research & Development-Basic Re		2,579
CONTRACTOR TOTAL					7,466
GENERAL INDICATOR CORPORATION	Virginia	USAF	RDTE/Other Research & Development-Basic Re		415-
GENERAL MAGNAPLATE CORPORATION	New Jersey	NAVY	RDTE/Other Research & Development-Basic Re		50
GENERAL MICROWAVE CORPORATION	New York	ARMY	RDTE/Other Research & Development-Basic Re		50
GENERAL RESEARCH CORPORATION	California	USAF	RDTE/Other Research & Development-Basic Re		990
GENERAL SCIENCES INC	Penn	NAVY	RDTE/Other Research & Development-Basic Re		48
GENTEX CORPORATION	Penn	ARMY	RDTE/Other Research & Development-Basic Re		5,485
GEO CENTERS INC	D.C.	NAVY	RDTE/Other Research & Development-Basic Re		1,594
	Mass	ARMY	RDTE/Other Research & Development-Basic Re		58
		NAVY	RDTE/Other Research & Development-Basic Re		469
CONTRACTOR TOTAL					527
GEORGE WASHINGTON UNIV THE	Alabama	NAVY	RDTE/Other Research & Development-Basic Re		2,121
GEORGETOWN UNIVERSITY	D.C.	NAVY	RDTE/Other Research & Development-Basic Re		13
GEORGIA INSTITUTE TECHNOLOGY	Georgia	ARMY	RDTE/Other Research & Development-Basic Re		630
GEORGIA STATE UNIVERSITY	Georgia	ARMY	RDTE/Other Research & Development-Basic Re		2,157
GEORGIA TECH RESEARCH CORP	Georgia	ARMY	RDTE/Other Research & Development-Basic Re		58
		NAVY	RDTE/Other Research & Development-Basic Re		150
			RDTE/Other Research & Development-Basic Re		50
CONTRACTOR TOTAL					200
GEOSYSTEMS ENGINEERING INC	Kansas	ARMY	RDTE/Other Research & Development-Basic Re		47
GNOSTECH INC	Penn	ARMY	RDTE/Other Research & Development-Basic Re		50
GRABER PETER H F	California	OCE	RDTE/Other Research & Development-Basic Re		58

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## PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

FISCAL YEAR 1991

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AZ11 (CONTINUED)

GROUND ENGINEERING INC	Missouri	OCE	RDTE/Other Research & Development-Basic Re	\$	97
GRUMMAN AEROSPACE CORPORATION	New Jersey	NAVY	RDTE/Other Research & Development-Basic Re		386
	New York	ARMY	RDTE/Other Research & Development-Basic Re		125
CONTRACTOR TOTAL					511
GSX SERVICES INC	D.C.	NAVY	RDTE/Other Research & Development-Basic Re		400
HARRIS GROUP THE INC	Virginia	ARMY	RDTE/Other Research & Development-Basic Re		628
HARVARD UNIVERSITY	Mass	ARMY	RDTE/Other Research & Development-Basic Re		40
HILTON SYSTEMS INC	Miss	ARMY	RDTE/Other Research & Development-Basic Re		841
HNC INC	California	NAVY	RDTE/Other Research & Development-Basic Re		250
HUDSON INSTITUTE INC	D.C.	ARMY	RDTE/Other Research & Development-Basic Re		90
HUGHES AIRCRAFT COMPANY	California	ARMY	RDTE/Other Research & Development-Basic Re		60
	NAVY	NAVY	RDTE/Other Research & Development-Basic Re		765
STATE TOTAL					825
HUMAN FACTOR SOLUTIONS	Maryland	USAF	RDTE/Other Research & Development-Basic Re		260
HYDROACOUSTICS INC	New York	NAVY	RDTE/Other Research & Development-Basic Re		93
I I T RESEARCH INSTITUTE	Illinois	DLA	RDTE/Other Research & Development-Basic Re		2,106
I MATH ASSOCIATES INC	New Mexico	ARMY	RDTE/Other Research & Development-Basic Re		50
IKONIX INC	Virginia	ARMY	RDTE/Other Research & Development-Basic Re		50
IMPLANT SCIENCES CORPORATION	Mass	ARMY	RDTE/Other Research & Development-Basic Re		49
INERTIA SWITCH INC	D.C.	NAVY	RDTE/Other Research & Development-Basic Re		1,111
INFORMATION SYSTEMS NTRKS CORP	Maryland	ARMY	RDTE/Other Research & Development-Basic Re		43-
INNOVATIVE SOLUTIONS FROM ADVA	Virginia	NAVY	RDTE/Other Research & Development-Basic Re		50
INTEGRATED SYSTEMS INC	California	ARMY	RDTE/Other Research & Development-Basic Re		50
INTERFEROMETRICS INC	D.C.	NAVY	RDTE/Other Research & Development-Basic Re		2,149

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AZ11 (CONTINUED)

	CONTRACTOR TOTAL				\$	226
	INTERNATIONAL BUS MCHS CORP	Virginia	NAVY	RDTE/Other Research & Development-Basic Re		2,375
	INVENTIVE DEVELOPMENT CO	New York	ARMY	RDTE/Other Research & Development-Basic Re		160
	IONICS RESEARCH INC	California	USAF	RDTE/Other Research & Development-Basic Re		49
	IONWERKS	Texas	NAVY	RDTE/Other Research & Development-Basic Re		43
	IOWA STATE UNIV SCNC	Texas	ARMY	RDTE/Other Research & Development-Basic Re		255
	IRVINE SENSORS CORPORATION	Iowa	ARMY	RDTE/Other Research & Development-Basic Re		45
	ITE INC	California	NAVY	RDTE/Other Research & Development-Basic Re		55
	ITERATIONS INC	Maryland	ARMY	RDTE/Other Research & Development-Basic Re		46
	J & D SCIENTIFIC INC	New York	ARMY	RDTE/Other Research & Development-Basic Re		50
	JAI ASSOCIATES INC	Arizona	ARMY	RDTE/Other Research & Development-Basic Re		242
	JAMES A. CADZOW	California	ARMY	RDTE/Other Research & Development-Basic Re		102
	JAYCOR	Tennessee	ARMY	RDTE/Other Research & Development-Basic Re		45
		D.C.	NAVY	RDTE/Other Research & Development-Basic Re		75
		Miss	ARMY	RDTE/Other Research & Development-Basic Re		54
			OCE	RDTE/Other Research & Development-Basic Re		174
	CONTRACTOR TOTAL			STATE TOTAL		228
						303
	JOHN G.C OLLINS	Miss	OCE	RDTE/Other Research & Development-Basic Re		29
	JOHNS HOPKINS UNIVERSITY	Maryland	ARMY	RDTE/Other Research & Development-Basic Re		178
	JOINT MANAGEMENT SERVICES CO	Georgia	ARMY	RDTE/Other Research & Development-Basic Re		145
	JOURNAL OF COASTAL RESEARCH	Florida	OCE	RDTE/Other Research & Development-Basic Re		28
	KARAGOZIAN & CASE	California	ARMY	RDTE/Other Research & Development-Basic Re		51
	KLEIN ASSOCIATES INC	Ohio	ARMY	RDTE/Other Research & Development-Basic Re		333

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AZ11 (CONTINUED)					
	KOPIN CORPORATION		NAVY	RDTE/Other Research & Development-Basic Re	\$ 266
	L J F CORP	Mass	ARMY	RDTE/Other Research & Development-Basic Re	599
	LASER SCIENCE CO	New Jersey	ARMY	RDTE/Other Research & Development-Basic Re	385
	LEHIGH UNIVERSITY	Iowa	ARMY	RDTE/Other Research & Development-Basic Re	50
		D.C.	NAVY	RDTE/Other Research & Development-Basic Re	100
		Penn	ARMY	RDTE/Other Research & Development-Basic Re	45
			NAVY	RDTE/Other Research & Development-Basic Re	123
					50
					173
					218
	CONTRACTOR TOTAL				
	LESHCHINSKY INC.	Delaware	ARMY	RDTE/Other Research & Development-Basic Re	44
	LIGHTING SCIENCES INC	Arizona	ARMY	RDTE/Other Research & Development-Basic Re	50
	LITTLE ARTHUR D INC	Mass	USAF	RDTE/Other Research & Development-Basic Re	50
	LITTON SYSTEMS INC	California	NAVY	RDTE/Other Research & Development-Basic Re	203
		Florida	ARMY	RDTE/Other Research & Development-Basic Re	227
		New Jersey	NAVY	RDTE/Other Research & Development-Basic Re	30
					460
	CONTRACTOR TOTAL				
	LOCKHEED MISSILES & SPACE CO	California	ARMY	RDTE/Other Research & Development-Basic Re	98
			USAF	RDTE/Other Research & Development-Basic Re	338
					436
	LOCKHEED SANDERS INC	N.H.	ARMY	RDTE/Other Research & Development-Basic Re	34
	LOCUS INC	Penn	NAVY	RDTE/Other Research & Development-Basic Re	90
		Virginia	NAVY	RDTE/Other Research & Development-Basic Re	105
					195
	CONTRACTOR TOTAL				
	LOUISIANA GEOLOGICAL SURVEY	Louisiana	ARMY	RDTE/Other Research & Development-Basic Re	60

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AZ11 (CONTINUED)

LOUISIANA STATE UNIV SYSTEM	Louisiana	ARMY	RDTE/Other Research & Development-Basic Re	\$	30
LOUISIANA STATE UNIVERSITY	Louisiana	OCE	RDTE/Other Research & Development-Basic Re		77
LOUISIANA TECH UNIVERSITY	Louisiana	OCE	RDTE/Other Research & Development-Basic Re		34
LUTRONIX INC	California	NAVY	RDTE/Other Research & Development-Basic Re		25
M L ENERGIA INC	New Jersey	ARMY	RDTE/Other Research & Development-Basic Re		50
MADEN TECH CONSULTING INC	Virginia	NAVY	RDTE/Other Research & Development-Basic Re		622
MANAGEMENT COMM & CTRL	Virginia	NAVY	RDTE/Other Research & Development-Basic Re		627
MANAGEMENT CONSULTING & RES	Virginia	ARMY	RDTE/Other Research & Development-Basic Re		127
MANAGEMENT INFO RESOURCES	Nebraska	ARMY	RDTE/Other Research & Development-Basic Re		50
MARK RESOURCES INC	California	ARMY	RDTE/Other Research & Development-Basic Re		249
MARTIN MARIETTA CORPORATION	Colorado	NAVY	RDTE/Other Research & Development-Basic Re		2,000
	Maryland	ARMY	RDTE/Other Research & Development-Basic Re		214
CONTRACTOR TOTAL					2,214
MASSACHSTTS INST OF TECHNOLOGY	Mass	ARMY NAVY USAF	RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re		6,328 444 237
STATE TOTAL					7,009
MATERIAL & ELECTROCHEMICAL RES	Arizona	NAVY USAF	RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re		50 50
STATE TOTAL					100
MATERIALS MODIFICATION INC	Virginia	ARMY	RDTE/Other Research & Development-Basic Re		59
MAXWELL LABORATORIES INC	California	ARMY USAF	RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re		226 1,691
STATE TOTAL					1,917
MCDONNELL AIRCRAFT COMPANY	Missouri	NAVY	RDTE/Other Research & Development-Basic Re		160
MCDONNELL DOUGLAS CORPORATION	Missouri	USAF	RDTE/Other Research & Development-Basic Re		75

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AZ11 (CONTINUED)

MEMPHIS STATE UNIVERSITY	Tennessee	OCE	RDTE/Other Research & Development-Basic Re	\$	48
MESOSCALE ENVIR SIMULATN	New York	ARMY	RDTE/Other Research & Development-Basic Re		188
METRON INC	D.C.	NAVY	RDTE/Other Research & Development-Basic Re		50
MICHIGAN STATE UNIVERSITY	Michigan	OCE	RDTE/Other Research & Development-Basic Re		110
MICHIGAN TCHNLGAL UNIVERSITY	Michigan	ARMY	RDTE/Other Research & Development-Basic Re		37
MICRO ANALYSIS AND DESIGN INC	Colorado	ARMY	RDTE/Other Research & Development-Basic Re		220
MICRO DEVICES CORP	New Jersey	ARMY	RDTE/Other Research & Development-Basic Re		50
MICROLCTRNICS CTR OF N CRLINA	N Carolina	NAVY	RDTE/Other Research & Development-Basic Re		48
MIDDLEBURY COLLEGE	Vermont	OCE	RDTE/Other Research & Development-Basic Re		60
MIKROS SYSTEMS CORPORATION	New Jersey	ARMY	RDTE/Other Research & Development-Basic Re		51
MINNESOTA MINING & MFG CO	Minnesota	ARMY	RDTE/Other Research & Development-Basic Re		606
MINNESOTA SUPERCOMPUTER CENTER	Minnesota	ARMY	RDTE/Other Research & Development-Basic Re		130
MISSION RESEARCH CORPORATION	California	ARMY	RDTE/Other Research & Development-Basic Re		348
		NAVY	RDTE/Other Research & Development-Basic Re		445
		USAF	RDTE/Other Research & Development-Basic Re		30-
STATE TOTAL					763
	N.H.	USAF	RDTE/Other Research & Development-Basic Re		670
	Virginia	ARMY	RDTE/Other Research & Development-Basic Re		49
		NAVY	RDTE/Other Research & Development-Basic Re		53
STATE TOTAL					102
CONTRACTOR TOTAL					1,535
MISSISSIPPI STATE UNIVERSITY	Miss	ARMY	RDTE/Other Research & Development-Basic Re		25
		OCE	RDTE/Other Research & Development-Basic Re		87
STATE TOTAL					112
MITECH INC	D.C.	ARMY	RDTE/Other Research & Development-Basic Re		46
MODESCO INC	California	NAVY	RDTE/Other Research & Development-Basic Re		95

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AZ11 (CONT'NUED)					
	MONTEREY BAY CORPORATION	Maryland	ARMY	RDTE/Other Research & Development-Basic Re	30
	MOTOROLA INC	Arizona	NAVY	RDTE/Other Research & Development-Basic Re	186
	MURRAY STATE UNIVERSITY	Kentucky	OCE	RDTE/Other Research & Development-Basic Re	35
	MUSYN INC	Minnesota	NAVY	RDTE/Other Research & Development-Basic Re	50
	NATIONAL ACADEMY SCIENCES USA	California	NAVY	RDTE/Other Research & Development-Basic Re	173
		D. C.	ARMY	RDTE/Other Research & Development-Basic Re	529
	CONTRACTOR TOTAL				702
	NATIONAL INST FOR PUB POLICY	Penn	ARMY	RDTE/Other Research & Development-Basic Re	134
	NAVSYS CORP	Colorado	USAF	RDTE/Other Research & Development-Basic Re	49
	NEOTRONICS CORP	New York	ARMY	RDTE/Other Research & Development-Basic Re	50
	NET EXPRESS INCORP	California	NAVY	RDTE/Other Research & Development-Basic Re	100
	NEW MEXICO STATE UNIVERSITY	New Mexico	ARMY	RDTE/Other Research & Development-Basic Re	951
	NEW YORK UNIVERSITY	New York	ARMY	RDTE/Other Research & Development-Basic Re	90
	NICHOLS RESEARCH CORPORATION	Alabama	ARMY	RDTE/Other Research & Development-Basic Re	443
			NAVY	RDTE/Other Research & Development-Basic Re	288
	STATE TOTAL				731
	NORMANDEAU ASSOC INC	S Carolina	OCE	RDTE/Other Research & Development-Basic Re	79
	NORTH CAROLINA STATE UNIV	N Carolina	ARMY	RDTE/Other Research & Development-Basic Re	426
	NORTH EAST SEMICONDUCTOR INC	New York	ARMY	RDTE/Other Research & Development-Basic Re	50
	NORTHWESTERN UNIVERSITY	Illinois	ARMY	RDTE/Other Research & Development-Basic Re	581
	NUCLEAR REMEDIATION	California	USAF	RDTE/Other Research & Development-Basic Re	100
	ODYSSEY RESEARCH ASSOCIATES	New York	USAF	RDTE/Other Research & Development-Basic Re	400
	OFFSHORE & COASTAL TECH INC	Miss	OCE	RDTE/Other Research & Development-Basic Re	125
	OHIO STATE UNIVERSITY	Ohio	ARMY	RDTE/Other Research & Development-Basic Re	117

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AZ11 (CONTINUED)					
	OKLAHOMA STATE UNIVERSITY	Oklahoma	ARMY OCE	RDTE/Other Research & Development-Basic Re	\$ 120
		STATE TOTAL			237
	OLD DMNION UNIV RES FUNDATION	Virginia	OCE	RDTE/Other Research & Development-Basic Re	26
	OLD DOMINION UNIV RESEARCH FOU	Virginia	NAVY	RDTE/Other Research & Development-Basic Re	164
	ONTAR CORPORATION	Mass	ARMY	RDTE/Other Research & Development-Basic Re	50
	OPTECH INC	CANADA	OCE	RDTE/Other Research & Development-Basic Re	1,180
	OPTICAL CONCEPTS RESEARCH	California	ARMY	RDTE/Other Research & Development-Basic Re	50
	OPTIMETRICS INC	Michigan	ARMY	RDTE/Other Research & Development-Basic Re	187
	OPTOLOGIC CORPORATION	California	ARMY	RDTE/Other Research & Development-Basic Re	40
	OREGON GRAD CTR STUDY RESEARCH	Oregon	OCE	RDTE/Other Research & Development-Basic Re	61
	OREGON STATE UNIVERSITY	Oregon	NAVY OCE	RDTE/Other Research & Development-Basic Re	210 286
		STATE TOTAL			496
	ORINCON CORPORATION	California	NAVY	RDTE/Other Research & Development-Basic Re	500
		Hawaii	NAVY	RDTE/Other Research & Development-Basic Re	50
		CONTRACTOR TOTAL			550
	OUACHITA BAPTIST UNIVERSITY	Arkansas	OCE	RDTE/Other Research & Development-Basic Re	56
	OWENS CORNING FIBERGLAS CORP	Ohio	NAVY	RDTE/Other Research & Development-Basic Re	70
	P C P INC	Florida	NAVY	RDTE/Other Research & Development-Basic Re	62
	P E SYSTEMS INC	California	NAVY	RDTE/Other Research & Development-Basic Re	563
	PACIFIC SIERRA RESEARCH CORP	California	ARMY NAVY	RDTE/Other Research & Development-Basic Re	49 50
		STATE TOTAL			99

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AZ11 (CONTINUED)					
CONTRACTOR TOTAL					
	PENNSYLVANIA STATE UNIV INC	New Mexico	ARMY	RDTE/Other Research & Development-Basic Re	\$ 49
	PERKIN ELMER CORPORATION	Penn	ARMY	RDTE/Other Research & Development-Basic Re	148
	PHYSICAL OPTICS CORPORATION	Conn	NAVY	RDTE/Other Research & Development-Basic Re	444
		California	ARMY	RDTE/Other Research & Development-Basic Re	200
			USAF	RDTE/Other Research & Development-Basic Re	50
				RDTE/Other Research & Development-Basic Re	49
		STATE TOTAL			99
	PHYSICAL SCIENCES INC	Mass	ARMY	RDTE/Other Research & Development-Basic Re	125
			NAVY	RDTE/Other Research & Development-Basic Re	50
		STATE TOTAL			175
	POTOMAC PHOTONICS INC	D.C.	NAVY	RDTE/Other Research & Development-Basic Re	230
	POTOMAC RESEARCH INCORPORATED	D.C.	NAVY	RDTE/Other Research & Development-Basic Re	80
	PRECISION COMBUSTION INC	Conn	ARMY	RDTE/Other Research & Development-Basic Re	52
	PRINCETON COMBUSTION RES LABS	New Jersey	ARMY	RDTE/Other Research & Development-Basic Re	118
	PRINCETON UNIVERSITY	New Jersey	ARMY	RDTE/Other Research & Development-Basic Re	410
	PRINCETON XRAY LASER	New Jersey	NAVY	RDTE/Other Research & Development-Basic Re	50
	PRODUCT PLANNING INC	Illinois	ARMY	RDTE/Other Research & Development-Basic Re	98
	PROPULSION DYNAMICS INC	Maryland	NAVY	RDTE/Other Research & Development-Basic Re	50
	PURDUE UNIVERSITY	Indiana	ARMY	RDTE/Other Research & Development-Basic Re	479
			OCE	RDTE/Other Research & Development-Basic Re	108
		STATE TOTAL			587
	Q DOT INC	Colorado	NAVY	RDTE/Other Research & Development-Basic Re	48
	QUEST STRUCTURES	California	OCE	RDTE/Other Research & Development-Basic Re	26
	QUESTECH INC	Virginia	NAVY	RDTE/Other Research & Development-Basic Re	521
	RANTECH CO	California	NAVY	RDTE/Other Research & Development-Basic Re	75
	RAYTHEON COMPANY	California	NAVY	RDTE/Other Research & Development-Basic Re	590

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AZ11 (CONTINUED)

CONTRACTOR TOTAL					
RENSELAER POLYTECHNIC INST	Mass	NAVY	RDTE/Other Research & Development-Basic Re	\$	265
RESEARCH SUPPORT INSTRUMENTS	Rhode Isld	NAVY	RDTE/Other Research & Development-Basic Re		291
ROCKWELL INTERNATIONAL CORP	New York	ARMY	RDTE/Other Research & Development-Basic Re		1,146
RONDOUT ASSOCIATES INC	Maryland	USAF	RDTE/Other Research & Development-Basic Re		645
ROWE DEINES INSTRUMENTS INC	California	ARMY	RDTE/Other Research & Development-Basic Re		48
ROYBAL & ASSOC A PROF CORP	New York	USAF	RDTE/Other Research & Development-Basic Re		358
RUTGERS THE STATE UNIVERSITY	California	OCE	RDTE/Other Research & Development-Basic Re		33
S C S TELECOM INC	Colorado	ARMY	RDTE/Other Research & Development-Basic Re		306
S F A INC	New Jersey	ARMY	RDTE/Other Research & Development-Basic Re		100
	New York	ARMY	RDTE/Other Research & Development-Basic Re		275
	D.C.	NAVY	RDTE/Other Research & Development-Basic Re		60
	Maryland	NAVY	RDTE/Other Research & Development-Basic Re		2,580
					252
					2,832
CONTRACTOR TOTAL					
S M SYSTEMS & RESEARCH CORP	Maryland	NAVY	RDTE/Other Research & Development-Basic Re		44
S T SYSTEMS CORPORATION	Mass	USAF	RDTE/Other Research & Development-Basic Re		200
SAN DIEGO STATE UNIVRSITY FOU	California	NAVY	RDTE/Other Research & Development-Basic Re		935
SAVANNAH RIVER ASSOCIATES INC	Virginia	ARMY	RDTE/Other Research & Development-Basic Re		49
SCHOTT GLASS TECHNOLOGIES INC	Penn	ARMY	RDTE/Other Research & Development-Basic Re		179
SCIENCE & TECHNOLOGY CORP	New Mexico	ARMY	RDTE/Other Research & Development-Basic Re		545
	Virginia	ARMY	RDTE/Other Research & Development-Basic Re		2,049
	NAVY	RDTE/Other Research & Development-Basic Re			121
STATE TOTAL					
					2,170
CONTRACTOR TOTAL					
					2,715

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AZ11 (CONTINUED)					
	SCIENCE APPLICATIONS INTL CORP	California	ARMY NAVY USAF	RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re	73 555 443
		STATE TOTAL			1,071
		Louisiana	ARMY	RDTE/Other Research & Development-Basic Re	61
		Virginia	ARMY NAVY	RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re	505 213
		STATE TOTAL			718
	CONTRACTOR TOTAL				1,850
	SCIENTIFIC APPLICANTS & RESCH	California	ARMY	RDTE/Other Research & Development-Basic Re	49
	SCIENTIFIC RESEARCH ASSOC INC	Conn	ARMY	RDTE/Other Research & Development-Basic Re	56
	SCIENTIFIC SYSTEMS INC	Mass	ARMY	RDTE/Other Research & Development-Basic Re	60
	SEAY THOMAS S INC	California	NAVY	RDTE/Other Research & Development-Basic Re	59
	SECHAN ELECTRONICS INC	Penn	NAVY	RDTE/Other Research & Development-Basic Re	152
	SECO DYN INC	California	ARMY	RDTE/Other Research & Development-Basic Re	180
	SEDIMENT INSTRMTATION RES DEV	Oregon	OCE	RDTE/Other Research & Development-Basic Re	75
	SENSIS CORPORATION	New York	NAVY	RDTE/Other Research & Development-Basic Re	47
	SHEILDING TECHNOLOGIES INC	Maryland	ARMY	RDTE/Other Research & Development-Basic Re	48
	SHENANDOAH SYSTEMS CO INC	Virginia	ARMY	RDTE/Other Research & Development-Basic Re	57
	SIGMA RESEARCH INC	New Mexico	ARMY	RDTE/Other Research & Development-Basic Re	101
	SIMPSON WEATHER ASSOCIATES	Virginia	USAF	RDTE/Other Research & Development-Basic Re	48
	SIMTEC INC	Virginia	USAF	RDTE/Other Research & Development-Basic Re	341
	SJS CORPORATION	Oregon	OCE	RDTE/Other Research & Development-Basic Re	45
	SMITH OCEAN SCIENCE & ENGINEER	N Carolina	OCE	RDTE/Other Research & Development-Basic Re	30
	SOFTWARE TECHNOLOGY INC	D.C.	NAVY	RDTE/Other Research & Development-Basic Re	842
		Florida	NAVY	RDTE/Other Research & Development-Basic Re	4,081

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AZ11 (CONTINUED)					
	CONTRACTOR TOTAL				
	SONALYSTS INC	Conn	NAVY	RDTE/Other Research & Development-Basic Re	4,923
	SONOSCAN INC	Illinois	NAVY	RDTE/Other Research & Development-Basic Re	60
	SOUTHERN METHODIST UNIVERSITY	Texas	ARMY	RDTE/Other Research & Development-Basic Re	49
	SOUTHWEST AEROSPACE CORP	California	NAVY	RDTE/Other Research & Development-Basic Re	38
	SOUTHWEST RESEARCH INSTITUTE	Texas	ARMY	RDTE/Other Research & Development-Basic Re	945
			NAVY	RDTE/Other Research & Development-Basic Re	100
			NAVY	RDTE/Other Research & Development-Basic Re	137
		STATE TOTAL			237
	SPARKTECH	California	NAVY	RDTE/Other Research & Development-Basic Re	49
	SPARTA INC	California	ARMY	RDTE/Other Research & Development-Basic Re	50
		Maryland	NAVY	RDTE/Other Research & Development-Basic Re	49
					99
	CONTRACTOR TOTAL				37
	SPAULDING COMPOSITES COMPANY	New York	ARMY	RDTE/Other Research & Development-Basic Re	334
	SPECTRON DEVELOPMENT LABS	California	ARMY	RDTE/Other Research & Development-Basic Re	46
	SPHINX TECHNOLOGIES INC	Mass	ARMY	RDTE/Other Research & Development-Basic Re	261
	SPIRE CORPORATION	Mass	ARMY USAF	RDTE/Other Research & Development-Basic Re	48
			STATE TOTAL		
		Conn	ARMY	RDTE/Other Research & Development-Basic Re	309
	SPRINGBORN LABORATORIES INC	California	ARMY DLA	RDTE/Other Research & Development-Basic Re	150
	SRI INTERNATIONAL				308
					3,019
		STATE TOTAL			3,327
	STANDARD GRAVEL COMPANY INC	Louisiana	OCE	RDTE/Other Research & Development-Basic Re	128
	STANFORD UNIVERSITY	California	ARMY NAVY	RDTE/Other Research & Development-Basic Re	2,843
					100
		STATE TOTAL			2,943

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	-R&D DESCRIPTION-	
AZ11 (CONTINUED)					
	STATE UNIVERSITY OF NEW YORK	New York	ARMY	RDTE/Other Research & Development-Basic Re	\$ 901
	STATISTICAL SIGNAL	California	ARMY	RDTE/Other Research & Development-Basic Re	135
	SURFACE OPTICS CORP	California	ARMY	RDTE/Other Research & Development-Basic Re	100
	SUTTON M M & ASSOCS	California	ARMY	RDTE/Other Research & Development-Basic Re	157
	SYNDETIX INC	New Mexico	ARMY	RDTE/Other Research & Development-Basic Re	663
	SYSTEMS & PROCESSES ENGRG CORP	Texas	ARMY	RDTE/Other Research & Development-Basic Re	100
	SYSTEMS ENGINEERING ASSOCIATES	California	NAVY	RDTE/Other Research & Development-Basic Re	3,346
	T P L INC	New Mexico	NAVY	RDTE/Other Research & Development-Basic Re	50
	TACAN CORPORATION	California	ARMY	RDTE/Other Research & Development-Basic Re	50
	TARTAN LABORATORIES INC	Penn	USAF	RDTE/Other Research & Development-Basic Re	710
	TAYLOR J F INC	Maryland	USAF	RDTE/Other Research & Development-Basic Re	161
	TEACHING STRATEGIES INC	D.C.	ARMY	RDTE/Other Research & Development-Basic Re	55
	TECHNO SCIENCES INC	Maryland	NAVY	RDTE/Other Research & Development-Basic Re	200
	TELEDYNE INDUSTRIES INC	Virginia	USAF	RDTE/Other Research & Development-Basic Re	37
	TELESOFT	California	USAF	RDTE/Other Research & Development-Basic Re	729
	TEXAS A & M RESEARCH FDN	Texas	ARMY OCE	RDTE/Other Research & Development-Basic Re	100 49
			STATE TOTAL		149
	TEXAS INSTRUMENTS INC	Texas	ARMY NAVY	RDTE/Other Research & Development-Basic Re	163 295
			STATE TOTAL		458
	TEXAS RESEARCH INTERNATIONAL	Texas	NAVY	RDTE/Other Research & Development-Basic Re	719
	THERMO ELCTRON' THNOLGIES CORP	California	NAVY	RDTE/Other Research & Development-Basic Re	3,555
	THURMAN W. GADDIE	Ohio	OCE	RDTE/Other Research & Development-Basic Re	79
	TOOMAY MATHIS & ASSOCIATES	Montana	ARMY	RDTE/Other Research & Development-Basic Re	93
	TORRANCE ADVANCED METALS CORP	California	ARMY	RDTE/Other Research & Development-Basic Re	50

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AZ11 (CONTINUED)					
	TRACOR AEROSPACE INC	Utah	ARMY	RDTE/Other Research & Development-Basic Re	31
	TROWER W PETER	Virginia	ARMY	RDTE/Other Research & Development-Basic Re	50
	TRW INC	California	ARMY	RDTE/Other Research & Development-Basic Re	40
		NAVY	RDTE/Other Research & Development-Basic Re	5,243	
	STATE TOTAL				5,283
	CONTRACTOR TOTAL				855
	TUSKEGEE UNIVERSITY	Virginia	ARMY	RDTE/Other Research & Development-Basic Re	6,138
	TVI CORPORATION	Alabama	ARMY	RDTE/Other Research & Development-Basic Re	100
		Maryland	ARMY	RDTE/Other Research & Development-Basic Re	50
	UNITED STATES DEPT TRANSPORTN	Mass	NAVY	RDTE/Other Research & Development-Basic Re	90
	UNITED TECHNOLOGIES CORP	Conn	ARMY	RDTE/Other Research & Development-Basic Re	164
		NAVY	RDTE/Other Research & Development-Basic Re	60	
		USAF	RDTE/Other Research & Development-Basic Re	87	
	STATE TOTAL				311
	CONTRACTOR TOTAL				280
	UNIV OF CAMBRIDGE	Florida	NAVY	RDTE/Other Research & Development-Basic Re	591
	UNIVERSITIES SPACE RES ASSN	UNITED KIN	NAVY	RDTE/Other Research & Development-Basic Re	45
		Maryland	NAVY	RDTE/Other Research & Development-Basic Re	1,285
	UNIVERSITY NC AT CHAPEL HL	N Carolina	ARMY	RDTE/Other Research & Development-Basic Re	102
		OCE	RDTE/Other Research & Development-Basic Re	85	
	STATE TOTAL				187
	UNIVERSITY OF ALABAMA	Alabama	ARMY	RDTE/Other Research & Development-Basic Re	126
		USAF	RDTE/Other Research & Development-Basic Re	111	
	STATE TOTAL				237
	UNIVERSITY OF ALASKA	Alaska	ARMY	RDTE/Other Research & Development-Basic Re	74
	UNIVERSITY OF ARIZONA	Arizona	ARMY	RDTE/Other Research & Development-Basic Re	50

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AZ11 (CONTINUED)					
	UNIVERSITY OF ARKANSAS	Arkansas	ARMY	RDTE/Other Research & Development-Basic Re	84
	UNIVERSITY OF CALIFORNIA	California	ARMY	RDTE/Other Research & Development-Basic Re	1,790
			NAVY	RDTE/Other Research & Development-Basic Re	108
			OCE	RDTE/Other Research & Development-Basic Re	32
	STATE TOTAL				1,930
	UNIVERSITY OF CENTRAL FLORIDA	Florida	NAVY	RDTE/Other Research & Development-Basic Re	152
	UNIVERSITY OF CINCINNATI	Ohio	ARMY	RDTE/Other Research & Development-Basic Re	133
			NAVY	RDTE/Other Research & Development-Basic Re	201
	STATE TOTAL				334
	UNIVERSITY OF COLORADO	Colorado	ARMY	RDTE/Other Research & Development-Basic Re	340
			OCE	RDTE/Other Research & Development-Basic Re	75
	STATE TOTAL				415
	UNIVERSITY OF CONNECTICUT	Conn	ARMY	RDTE/Other Research & Development-Basic Re	50
	UNIVERSITY OF DAYTON INC	Ohio	ARMY	RDTE/Other Research & Development-Basic Re	78
			USAF	RDTE/Other Research & Development-Basic Re	35
	STATE TOTAL				113
	UNIVERSITY OF DELAWARE	Delaware	ARMY	RDTE/Other Research & Development-Basic Re	962
	UNIVERSITY OF FLORIDA	Florida	ARMY	RDTE/Other Research & Development-Basic Re	460
			USAF	RDTE/Other Research & Development-Basic Re	60
			OCE	RDTE/Other Research & Development-Basic Re	67
	STATE TOTAL				587
	UNIVERSITY OF GEORGIA	Georgia	OCE	RDTE/Other Research & Development-Basic Re	29
	UNIVERSITY OF HOUSTON SYSTEM	Texas	ARMY	RDTE/Other Research & Development-Basic Re	61
	UNIVERSITY OF ILLINOIS	Illinois	ARMY	RDTE/Other Research & Development-Basic Re	2,391
			NAVY	RDTE/Other Research & Development-Basic Re	150
	STATE TOTAL				2,541
	UNIVERSITY OF IOWA	Iowa	NAVY	RDTE/Other Research & Development-Basic Re	114
	UNIVERSITY OF IOWA THE	Iowa	ARMY	RDTE/Other Research & Development-Basic Re	98

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION		
AZ11 (CONTINUED)						
			OCE	RDTE/Other Research & Development-Basic Re	\$	108
		STATE TOTAL				206
	UNIVERSITY OF KANSAS	Kansas	ARMY	RDTE/Other Research & Development-Basic Re		45
	UNIVERSITY OF MARYLAND	Maryland	ARMY	RDTE/Other Research & Development-Basic Re		1,003
	UNIVERSITY OF MASSACHUSETTS	Mass	ARMY	RDTE/Other Research & Development-Basic Re		414
			OCE	RDTE/Other Research & Development-Basic Re		47
		STATE TOTAL				461
	UNIVERSITY OF MIAMI INC	Florida	ARMY	RDTE/Other Research & Development-Basic Re		159
			OCE	RDTE/Other Research & Development-Basic Re		70
		STATE TOTAL				229
	UNIVERSITY OF MICHIGAN	Michigan	ARMY	RDTE/Other Research & Development-Basic Re		3,287
			OCE	RDTE/Other Research & Development-Basic Re		26
		STATE TOTAL				3,313
	UNIVERSITY OF MINNESOTA	Minnesota	ARMY	RDTE/Other Research & Development-Basic Re		6,831
	UNIVERSITY OF MISSISSIPPI	Miss	OCE	RDTE/Other Research & Development-Basic Re		83
	UNIVERSITY OF MISSOURI	Missouri	ARMY	RDTE/Other Research & Development-Basic Re		163
	UNIVERSITY OF OREGON	Oregon	ARMY	RDTE/Other Research & Development-Basic Re		149
	UNIVERSITY OF PENNSYLVANIA	Penn	ARMY	RDTE/Other Research & Development-Basic Re		2,013
	UNIVERSITY OF PITTSBURGH	Penn	ARMY	RDTE/Other Research & Development-Basic Re		212
	UNIVERSITY OF ROCHESTER	New York	ARMY	RDTE/Other Research & Development-Basic Re		2,546
	UNIVERSITY OF SOUTH ALABAMA	Alabama	OCE	RDTE/Other Research & Development-Basic Re		32
	UNIVERSITY OF SOUTH CALIFORNIA	California	NAVY	RDTE/Other Research & Development-Basic Re		135
	UNIVERSITY OF SOUTH CAROLINA	S Carolina	ARMY	RDTE/Other Research & Development-Basic Re		160
	UNIVERSITY OF SOUTHERN CALIF	California	ARMY	RDTE/Other Research & Development-Basic Re		3,014
			USAF	RDTE/Other Research & Development-Basic Re		214
		STATE TOTAL				3,228

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AZ11	(CONTINUED)				
	UNIVERSITY OF SOUTHERN MISSISS	Miss	ARMY	RDTE/Other Research & Development-Basic Re	\$ 94
	UNIVERSITY OF TENNESSEE	Tennessee	ARMY	RDTE/Other Research & Development-Basic Re	300
	UNIVERSITY OF TEXAS AT DALLAS	Texas	NAVY	RDTE/Other Research & Development-Basic Re	225
	UNIVERSITY OF TEXAS SYSTEM	Texas	ARMY	RDTE/Other Research & Development-Basic Re	236
	UNIVERSITY OF VIRGINIA	Virginia	ARMY	RDTE/Other Research & Development-Basic Re	100
	UNIVERSITY OF WASHINGTON	Washington	ARMY	RDTE/Other Research & Development-Basic Re	97
			OCE	RDTE/Other Research & Development-Basic Re	48
					145
			STATE TOTAL		1,743
	UNIVERSITY OF WISCONSIN SYSTEM	Wisconsin	ARMY	RDTE/Other Research & Development-Basic Re	
	UNIVERSITY RESEARCH FOUNDATION	Maryland	NAVY	RDTE/Other Research & Development-Basic Re	405
	UNIVERSITY SYSTEM OF NH	N.H.	ARMY	RDTE/Other Research & Development-Basic Re	48
	UTAH STATE UNIVERSITY	Utah	OCE	RDTE/Other Research & Development-Basic Re	59
	VANDERBILT UNIVERSITY THE	Tennessee	ARMY	RDTE/Other Research & Development-Basic Re	90
	VIRGINIA PLYTHNIC INST/ST UNI	Virginia	ARMY	RDTE/Other Research & Development-Basic Re	48
			OCE	RDTE/Other Research & Development-Basic Re	30
					78
			STATE TOTAL		28
	VISTA RESEARCH	California	ARMY	RDTE/Other Research & Development-Basic Re	
	VITTOR BARRY A & ASSOCIATES	Alabama	OCE	RDTE/Other Research & Development-Basic Re	188
		S Carolina	OCE	RDTE/Other Research & Development-Basic Re	97
					285
	CONTRACTOR TOTAL				497
	WAGNER DANIEL H ASSOCIATES	Penn	NAVY	RDTE/Other Research & Development-Basic Re	
	WASHINGTON UNIVERSITY	Missouri	OCE	RDTE/Other Research & Development-Basic Re	51
	WAYNE STATE UNIVERSITY	Michigan	ARMY	RDTE/Other Research & Development-Basic Re	208
	WEIDLINGER ASSOCIATES INC	California	ARMY	RDTE/Other Research & Development-Basic Re	75
		New York	ARMY	RDTE/Other Research & Development-Basic Re	65
	CONTRACTOR TOTAL				140

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AZ11 (CONTINUED)					
	WEST VIRGINIA RESEARCH CORP	W Virginia	ARMY	RDTE/Other Research & Development-Basic Re	\$ 65
	WESTAT INC	Maryland	ARMY	RDTE/Other Research & Development-Basic Re	224
	WESTINGHOUSE ELECTRIC CORP	Maryland	NAVY	RDTE/Other Research & Development-Basic Re	182
			USAF	RDTE/Other Research & Development-Basic Re	432
	STATE TOTAL				614
		Penn	ARMY	RDTE/Other Research & Development-Basic Re	134
			NAVY	RDTE/Other Research & Development-Basic Re	364
	STATE TOTAL				498
	CONTRACTOR TOTAL				1,112
	WETLANDS RESEARCH INC	Illinois	OCE	RDTE/Other Research & Development-Basic Re	100
	WICKERSHEIMER ENGINEERS	Illinois	ARMY	RDTE/Other Research & Development-Basic Re	110
	WOODS HOLE OCNRPIC INSTITUTE	Mass	NAVY	RDTE/Other Research & Development-Basic Re	560
	WORCESTER PLYTECHNIC INSTITUTE	Mass	ARMY	RDTE/Other Research & Development-Basic Re	85
	YARDNEY TECHNICAL PRODUCTS	Conn	NAVY	RDTE/Other Research & Development-Basic Re	47
	ZELIGSON COMPANY	Oklahoma	ARMY	RDTE/Other Research & Development-Basic Re	61
	ZYBRON INC	Ohio	USAF	RDTE/Other Research & Development-Basic Re	300
	R&D TOTAL				217,146
AZ12	A A I CORPORATION	Maryland	ARMY	RDTE/Other Research & Development-Explor D	124
	ACCSYS TECHNOLOGY INC	California	NAVY	RDTE/Other Research & Development-Explor D	288
	ADELMAN S ASSOCIATES	Virginia	ARMY	RDTE/Other Research & Development-Explor D	51
	ADTECH SYSTEM RESEARCH INC	Ohio	USAF	RDTE/Other Research & Development-Explor D	250
	ADVANCED DECISION SYSTEMS	California	ARMY	RDTE/Other Research & Development-Explor D	490
	ADVANCED MATERIALS LABORATORY	Mass	NAVY	RDTE/Other Research & Development-Explor D	26
	ADVANCED TECHNOLOGY & RESEARCH	Maryland	ARMY	RDTE/Other Research & Development-Explor D	36
	ADVANCED TECHNOLOGY MATERIALS	Conn	ARMY	RDTE/Other Research & Development-Explor D	375
	AERODYNE RESEARCH INC	Mass	USAF	RDTE/Other Research & Development-Explor D	420

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AZ12 (CONTINUED)					
	AEROJET	California	USAF	RDTE/Other Research & Development-Explor D	\$ 100
	ALLIANT TECHSYSTEMS INC	Minnesota	NAVY	RDTE/Other Research & Development-Explor D	50
		Penn	NAVY	RDTE/Other Research & Development-Explor D	357
	CONTRACTOR TOTAL				407
	ALLIED SIGNAL INC	Arizona	NAVY	RDTE/Other Research & Development-Explor D	460
	ALPHATECH INC	Mass	ARMY	RDTE/Other Research & Development-Explor D	191
	AMCOMP CORP	California	ARMY	RDTE/Other Research & Development-Explor D	33
	AMERICAN RESEARCH CORP	Virginia	ARMY	RDTE/Other Research & Development-Explor D	49
	AMERICAN TELEPHONE & TELG CO	N Carolina	NAVY	RDTE/Other Research & Development-Explor D	300
	AMOCO CHEMICAL CO	Georgia	NAVY	RDTE/Other Research & Development-Explor D	2,660
	ANTECH INC	Georgia	ARMY	RDTE/Other Research & Development-Explor D	75
	APPLIED AERODYNAMICS ASSOC	Maryland	NAVY	RDTE/Other Research & Development-Explor D	26
	APPLIED RESEARCH ASSOC INC	N Carolina	ARMY	RDTE/Other Research & Development-Explor D	167
	APPLIED RESEARCH LABORATORY	Virginia	NAVY	RDTE/Other Research & Development-Explor D	538-
	APPLIED SCIENCES INC	Ohio	ARMY	RDTE/Other Research & Development-Explor D	244
	APTEK INC	Colorado	NAVY	RDTE/Other Research & Development-Explor D	392
	ARMSTRONG COMPUTING INC	Mass	NAVY	RDTE/Other Research & Development-Explor D	50
	ARROW TECH ASSOCIATES	Vermont	USAF	RDTE/Other Research & Development-Explor D	174
	ASI SYSTEMS INTERNATIONAL	Florida	USAF	RDTE/Other Research & Development-Explor D	2,625
		Maryland	ARMY	RDTE/Other Research & Development-Explor D	121
	CONTRACTOR TOTAL				2,746
	BAKHAR ASSOCIATES	California	USAF	RDTE/Other Research & Development-Explor D	50
	BALL CORPORATION	Colorado	NAVY	RDTE/Other Research & Development-Explor D	795
	BATTELLE DEVELOPMENT CORP	Ohio	NAVY	RDTE/Other Research & Development-Explor D	394

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AZ12 (CONTINUED)					
	BATTELLE MEMORIAL INSTITUTE	Ohio	ARMY	RDTE/Other Research & Development-Explor D	\$ 566
	BDM INTERNATIONAL INC	New Mexico	ARMY	RDTE/Other Research & Development-Explor D	255
		Virginia	ARMY	RDTE/Other Research & Development-Explor D	5,052
	CONTRACTOR TOTAL				5,307
	BEI ELECTRONICS INC	Texas	ARMY	RDTE/Other Research & Development-Explor D	50
	BELL HELICOPTER TEXTRON INC	Texas	ARMY	RDTE/Other Research & Development-Explor D	65-
	BIGGER THAN LIFE INC	California	NAVY	RDTE/Other Research & Development-Explor D	646
	BIONETICS CORP	Virginia	ARMY	RDTE/Other Research & Development-Explor D	170
	BOEING AEROSPACE & ELECTRONICS	Washington	ARMY	RDTE/Other Research & Development-Explor D	80
	BOEING COMPANY THE	Penn	ARMY	RDTE/Other Research & Development-Explor D	461
		Washington	ARMY	RDTE/Other Research & Development-Explor D	60
			NAVY	RDTE/Other Research & Development-Explor D	80
	CONTRACTOR TOTAL			STATE TOTAL	140
	30LT BERANEK & NEWMAN INC	Mass	ARMY	RDTE/Other Research & Development-Explor D	601
			NAVY	RDTE/Other Research & Development-Explor D	628
					245
	CONTRACTOR TOTAL			STATE TOTAL	873
	CALIFORNIA RES & TECHNOLOGY	California	NAVY	RDTE/Other Research & Development-Explor D	162
	CARLOW ASSOCIATES INC	Virginia	ARMY	RDTE/Other Research & Development-Explor D	383
	CARNEGIE MELLON UNIVERSITY	Penn	ARMY	RDTE/Other Research & Development-Explor D	1,285
	CARTER ANALYTICAL LABORATORY	California	ARMY	RDTE/Other Research & Development-Explor D	150
	CERADYNE INC	California	ARMY	RDTE/Other Research & Development-Explor D	93
	CFD RESEARCH CORPORATION	Alabama	ARMY	RDTE/Other Research & Development-Explor D	50
	CHAMBERLAIN MANUFACTURING CORP	Illinois	ARMY	RDTE/Other Research & Development-Explor D	45
	CHI SYSTEMS INC	Penn	ARMY	RDTE/Other Research & Development-Explor D	50

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AZ12 (CONTINUED)					
	COMMONWEALTH TECHNOLOGY INC	Virginia	NAVY	RDTE/Other Research & Development-Explor D	2,120
	COMPU CAD INC	Mass	ARMY	RDTE/Other Research & Development-Explor D	45
	CONTROL DATA CORPORATION	Minnesota	USAF	RDTE/Other Research & Development-Explor D	150
	CREATIVE OPTICS INC	Mass	ARMY	RDTE/Other Research & Development-Explor D	400
	CRYSTAL SYSTEMS INC	Mass	NAVY	RDTE/Other Research & Development-Explor D	50
	DAUBIN SYSTEMS CORPORATION	Florida	NAVY	RDTE/Other Research & Development-Explor D	250
	DBA SYSTEMS INC	Florida	ARMY	RDTE/Other Research & Development-Explor D	403
	DECISION SCIENCE APPLICATIONS	Virginia	NAVY	RDTE/Other Research & Development-Explor D	248
	DECISION SYSTEMS TECH INC	Maryland	NAVY	RDTE/Other Research & Development-Explor D	494
	DETROIT DIESEL CORP	Michigan	NAVY	RDTE/Other Research & Development-Explor D	1,022
	DRAPER CHARLES STARK LAB INC	Mass	NAVY	RDTE/Other Research & Development-Explor D	435
	DU PONT E I DE NEMOURS & CO	Delaware	NAVY	RDTE/Other Research & Development-Explor D	133
	E I C LABORATORY INC	Mass	USAF	RDTE/Other Research & Development-Explor D	364
	EAGLE PICHER INDUSTRIES INC	Missouri	NAVY	RDTE/Other Research & Development-Explor D	330
	EASTPORT INTERNATIONAL INC	California	NAVY	RDTE/Other Research & Development-Explor D	504
	EATON CORPORATION	New York	NAVY	RDTE/Other Research & Development-Explor D	60
	ELECTRO OPTICAL SYSTEM	Penn	NAVY	RDTE/Other Research & Development-Explor D	50
	ELECTROMAGNETIC SCIENCES INC	Georgia	NAVY	RDTE/Other Research & Development-Explor D	57
	ENSCO INC	Virginia	NAVY	RDTE/Other Research & Development-Explor D	728
	ENSIGN BICKFORD INDUSTRIES	Conn	NAVY	RDTE/Other Research & Development-Explor D	220
	ENTRON SYSTEMS CO	California	NAVY	RDTE/Other Research & Development-Explor D	101
	FALON INC	California	NAVY	RDTE/Other Research & Development-Explor D	460
	FAR WEST SENSOR CORP	California	USAF	RDTE/Other Research & Development-Explor D	419
	FIBER MATERIALS INC	Maine	ARMY	RDTE/Other Research & Development-Explor D	783

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CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AZ12 (CONTINUED)				
STATE TOTAL				
FORCE INSTITUTE	DENMARK	ARMY	RDTE/Other Research & Development-Explor D	37
FOSTER MILLER INC	Mass	ARMY NAVY	RDTE/Other Research & Development-Explor D RDTE/Other Research & Development-Explor D	820 30 50 58 108
STATE TOTAL				
GENERAL DYNAMICS CORPORATION	California	ARMY	RDTE/Other Research & Development-Explor D	3,306
GENERAL ELECTRIC COMPANY	New Jersey	ARMY	RDTE/Other Research & Development-Explor D	300
	New York	NAVY	RDTE/Other Research & Development-Explor D	150
CONTRACTOR TOTAL				
GENESIS CONSULTANTS LTD	Texas	ARMY	RDTE/Other Research & Development-Explor D	450
GEO CENTERS INC	Mass	ARMY USAF	RDTE/Other Research & Development-Explor D RDTE/Other Research & Development-Explor D	76- 1,745 50 1,795
STATE TOTAL				
GEODYNAMICS CORPORATION	California	NAVY	RDTE/Other Research & Development-Explor D	210
GEOPEX LTD	N Carolina	ARMY	RDTE/Other Research & Development-Explor D	152
GEORGE MASON UNIVERSITY	Virginia	ARMY	RDTE/Other Research & Development-Explor D	50
GEORGIA TECH RESEARCH CORP	Georgia	ARMY	RDTE/Other Research & Development-Explor D	830
GUILD ASSOCIATES INC	Ohio	ARMY	RDTE/Other Research & Development-Explor D	985
GUMBS ASSOCIATES INC	New Jersey	ARMY	RDTE/Other Research & Development-Explor D	298
H R TEXTRON INC	California	ARMY	RDTE/Other Research & Development-Explor D	394
HARRIS GROUP THE INC	Virginia	USAF	RDTE/Other Research & Development-Explor D	310
HAWAII BIOTECHNOLOGY GROUP	Hawaii	ARMY	RDTE/Other Research & Development-Explor D	56
HERCULES INCORPORATED	New Jersey	ARMY	RDTE/Other Research & Development-Explor D	75
	Utah	NAVY	RDTE/Other Research & Development-Explor D	378

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AZ12 (CONTINUED)					
	CONTRACTOR TOTAL				
	HONEYWELL INC	Minnesota	USAF	RDTE/Other Research & Development-Explor D	453
	HRB SYSTEMS INC	Penn	NAVY	RDTE/Other Research & Development-Explor D	112
	HUGHES AIRCRAFT COMPANY	California	ARMY	RDTE/Other Research & Development-Explor D	95
			NAVY	RDTE/Other Research & Development-Explor D	127
			USAF	RDTE/Other Research & Development-Explor D	70
				RDTE/Other Research & Development-Explor D	479
	STATE TOTAL				
	HUGHES DANBURY OPTICAL SYSTEMS	Conn	NAVY	RDTE/Other Research & Development-Explor D	676
	I I T RESEARCH INSTITUTE	Illinois	ARMY	RDTE/Other Research & Development-Explor D	5,047
	I MATH ASSOCIATES INC	Florida	NAVY	RDTE/Other Research & Development-Explor D	375
	I S T INC	Washington	NAVY	RDTE/Other Research & Development-Explor D	303
	IABG	GERMANY	NAVY	RDTE/Other Research & Development-Explor D	1,344
	INDUSTRIAL DYNAMICS COMPANY	Maryland	NAVY	RDTE/Other Research & Development-Explor D	143
	INDUSTRIAL QUALITY INC	Maryland	ARMY	RDTE/Other Research & Development-Explor D	39
	INFORMATION SYSTEMS NETWORKS CORP	Maryland	ARMY	RDTE/Other Research & Development-Explor D	150
	INTEGRATED SYS RES CORPORATION	New Jersey	ARMY	RDTE/Other Research & Development-Explor D	139
	INTERNATIONAL BUS MCHS CORP	New York	ARMY	RDTE/Other Research & Development-Explor D	733
	ITT CORPORATION	New Jersey	USAF	RDTE/Other Research & Development-Explor D	60
	JAYCOR	California	NAVY	RDTE/Other Research & Development-Explor D	196
		Miss	USAF	RDTE/Other Research & Development-Explor D	342
				RDTE/Other Research & Development-Explor D	75
	CONTRACTOR TOTAL				
	K M S INDUSTRIES INC	Michigan	ARMY	RDTE/Other Research & Development-Explor D	417
	KAISER AEROSPACE & ELEC CORP	California	NAVY	RDTE/Other Research & Development-Explor D	50
	KAISER OPTICAL SYSTEMS INC	Michigan	NAVY	RDTE/Other Research & Development-Explor D	437
	KAMAN AEROSPACE CORPORATION	Conn	ARMY	RDTE/Other Research & Development-Explor D	99
				RDTE/Other Research & Development-Explor D	491

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(AMOUNTS IN THOUSANDS)

CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION		
AZ12 (CONTINUED)					
KOT INDUSTRIES INC		NAVY	RDTE/Other Research & Development-Explor D	\$	125
STATE TOTAL					616
KLEIN ASSOCIATES INC	Texas	ARMY	RDTE/Other Research & Development Explor D		46
KLOHN LEONOFF LTD	Ohio	ARMY	RDTE/Other Research & Development-Explor D		168
KTECH CORPORATION	Washington	NAVY	RDTE/Other Research & Development-Explor D		33
L B & M ASSOCIATES INC	New Mexico	NAVY	RDTE/Other Research & Development-Explor D		493
L J F CORP	Oklahoma	ARMY	RDTE/Other Research & Development-Explor D		333
LIFTEX INC	New Jersey	NAVY	RDTE/Other Research & Development-Explor D		50
LOCKHEED MISSILES & SPACE CO	Penn	ARMY	RDTE/Other Research & Development-Explor D		78
LOGISTICS MANAGEMENT ENGRG	California	NAVY	RDTE/Other Research & Development-Explor D		2,042
LORAL CORPORATION	Penn	ARMY	RDTE/Other Research & Development-Explor D		127
MACH I INC	California	NAVY	RDTE/Other Research & Development-Explor D		64
MALIBU RESEARCH ASSOCIATES	Penn	ARMY	RDTE/Other Research & Development-Explor D		161
	California	ARMY	RDTE/Other Research & Development-Explor D		48
	USAF	ARMY	RDTE/Other Research & Development-Explor D		52
STATE TOTAL					100
MARTIN MARIETTA CORPORATION	Florida	ARMY	RDTE/Other Research & Development-Explor D		642
	NAVY	NAVY	RDTE/Other Research & Development-Explor D		50
STATE TOTAL					692
	Maryland	ARMY	RDTE/Other Research & Development-Explor D		116
	NAVY	NAVY	RDTE/Other Research & Development-Explor D		305
STATE TOTAL					421
CONTRACTOR TOTAL					1,113
MASSACHSTTS INST OF TECHNOLOGY	Mass	ARMY	RDTE/Other Research & Development-Explor D		181
MATERIALS SCIENCES CORP	Penn	NAVY	RDTE/Other Research & Development-Explor D		296
MAURER ENGINEERING INC	Texas	NAVY	RDTE/Other Research & Development-Explor D		36

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AZ12 (CONTINUED)					
	MAXWELL LABORATORIES INC	California	NAVY	RDTE/Other Research & Development-Explor D	242
	MCA ENGINEERS INC	California	NAVY	RDTE/Other Research & Development-Explor D	76
	MCDONNELL DOUGLAS CORPORATION	Missouri	USAF	RDTE/Other Research & Development-Explor D	517
	MCDONNELL DOUGLAS HELICOPTER	Arizona	ARMY	RDTE/Other Research & Development-Explor D	3,280
	MEI ASSOCIATES INC	Mass	USAF	RDTE/Other Research & Development-Explor D	300
	METRICA INC	Texas	USAF	RDTE/Other Research & Development-Explor D	269
	METROLASER	California	USAF	RJTE/Other Research & Development-Explor D	50
	METRON INC	California	NAVY	RDTE/Other Research & Development-Explor D	92
	MICHIGAN STATE UNIVERSITY	Michigan	NAVY	RDTE/Other Research & Development-Explor D	140
	MICRO SENSOR SYSTEMS INC	Virginia	NAVY	RDTE/Other Research & Development-Explor D	50
	MIKROS SYSTEMS CORPORATION	New Jersey	NAVY	RDTE/Other Research & Development-Explor D	1,500
	MINE SAFETY APPLIANCES CO	Penn	ARMY	RDTE/Other Research & Development-Explor D	50
	MIRAGE SYSTEMS	California	NAVY	RDTE/Other Research & Development-Explor D	250
	MISSION RESEARCH CORPORATION	N.H.	USAF	RDTE/Other Research & Development-Explor D	192
	MULTISIGNAL TECHNOLOGY CORP	California	NAVY	RDTE/Other Research & Development-Explor D	103
	MULTISPEC CORPORATION	New Jersey	NAVY	RDTE/Other Research & Development-Explor D	50
	N K F ENGINEERING INC	Virginia	NAVY	RDTE/Other Research & Development-Explor D	50
	NATIONAL ACADEMY SCIENCES USA	D.C.	ARMY	RDTE/Other Research & Development-Explor D	280
	NATIONAL CNCL ON RADTN PRCTN	Maryland	NAVY	RDTE/Other Research & Development-Explor D	45
	NEAL RESEARCH ASSOC INC	Maryland	NAVY	RDTE/Other Research & Development-Explor D	75
	NEW ENGLAND RESEARCH INC	Vermont	USAF	RDTE/Other Research & Development-Explor D	46
	NEW HORIZONS DIAGNOSTICS CORP	Maryland	ARMY	RDTE/Other Research & Development-Explor D	1,835
	NEW MEXICO INST OF MIN TCHNLGY	New Mexico	ARMY	RDTE/Other Research & Development-Explor D	43
	NIELSEN ENGINEERING & RES	California	NAVY	RDTE/Other Research & Development-Explor D	55

## PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AZ12 (CONTINUED)					
	NORTHWESTERN UNIVERSITY	Illinois	ARMY	RDTE/Other Research & Development-Explor D	110
	NORTON CO DIAMOND FILMS DIV	Mass	ARMY	RDTE/Other Research & Development-Explor D	197
	OLIN ORDNANCE	Florida	ARMY	RDTE/Other Research & Development-Explor D	425
	ONTAR CORPORATION	Mass	NAVY	RDTE/Other Research & Development-Explor D	100
	OPTIMETRICS INC	Maryland	ARMY	RDTE/Other Research & Development-Explor D	176
		Michigan	ARMY	RDTE/Other Research & Development-Explor D	410
		New Mexico	ARMY	RDTE/Other Research & Development-Explor D	209
		Virginia	ARMY	RDTE/Other Research & Development-Explor D	726
	CONTRACTOR TOTAL				1,521
	OREGON STATE UNIVERSITY	Oregon	NAVY	RDTE/Other Research & Development-Explor D	71
	ORINCON CORPORATION	California	NAVY	RDTE/Other Research & Development-Explor D	4,485
	PHOTO METRIC INC	Mass	USAF	RDTE/Other Research & Development-Explor D	581
	PHOTON RESEARCH ASSOCIATES	California	NAVY	RDTE/Other Research & Development-Explor D	2,544
	PHOTONICS SYSTEMS INC	Florida	NAVY	RDTE/Other Research & Development-Explor D	49
	POLYTECHNIC UNIV OF NEW YORK	New York	NAVY	RDTE/Other Research & Development-Explor D	125
	POTOMAC RESEARCH INCORPORATED	Virginia	NAVY	RDTE/Other Research & Development-Explor D	241
	POWERTRONIC SYSTEMS INC	Louisiana	NAVY	RDTE/Other Research & Development-Explor D	63
	PRINCETON UNIVERSITY	New Jersey	NAVY	RDTE/Other Research & Development-Explor D	204
	QUANTUM CONSULTANTS INC	Michigan	ARMY	RDTE/Other Research & Development-Explor D	50
	RADEX INC	Mass	USAF	RDTE/Other Research & Development-Explor D	907
	RADIX SYSTEMS INC	Maryland	NAVY	RDTE/Other Research & Development-Explor D	100
	RESEARCH TRIANGLE INSTITUTE	N Carolina	ARMY	RDTE/Other Research & Development-Explor D	370
	RESOURCE CONSULTANTS INC	Virginia	NAVY	RDTE/Other Research & Development-Explor D	335
	ROCKET RESEARCH CO	Washington	ARMY	RDTE/Other Research & Development-Explor D	33

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AZ12 (CONTINUED)					
	ROCKWELL INTERNATIONAL CORP	California	NAVY USAF	RDTE/Other Research & Development-Explor D RDTE/Other Research & Development-Explor D	200 280
	STATE TOTAL				480
	ROCKY MOUNTAIN INSTRUMENT CO	Colorado	ARMY	RDTE/Other Research & Development-Explor D	49
	RUTSTEIN ALEX & ASSOCIATES	Ohio	ARMY	RDTE/Other Research & Development-Explor D	200
	S T SYSTEMS CORPORATION	D.C.	NAVY	RDTE/Other Research & Development-Explor D	1,694
	SATCON TECHNOLOGY CORPORATION	Mass	ARMY NAVY	RDTE/Other Research & Development-Explor D RDTE/Other Research & Development-Explor D	50 50
	STATE TOTAL				100
	SCI TECHNOLOGY INC	Alabama	NAVY	RDTE/Other Research & Development-Explor D	90
	SCIENCE & TECHNOLOGY CORP	Virginia	ARMY	RDTE/Other Research & Development-Explor D	1,224
	SCIENCE APPLICATIONS INTL CORP	California	ARMY NAVY	RDTE/Other Research & Development-Explor D RDTE/Other Research & Development-Explor D	1,442 2,903
	STATE TOTAL				4,345
	CONTRACTOR TOTAL	Virginia	NAVY	RDTE/Other Research & Development-Explor D	280
	SCIENCE RESEARCH LABORATORY	California	NAVY	RDTE/Other Research & Development-Explor D	4,625
	SEMCOR INC	Penn	NAVY	RDTE/Other Research & Development-Explor D	500
	SENSCI CORP	Virginia	NAVY	RDTE/Other Research & Development-Explor D	366
	SOCIETY OF AUTO ENGINEERS	Penn	ARMY	RDTE/Other Research & Development-Explor D	649
	SOCIOMETRICS INC	Maryland	ARMY	RDTE/Other Research & Development-Explor D	152
	SOFTWARE PRODUCTIVITY SOLUTIONS	Florida	NAVY	RDTE/Other Research & Development-Explor D	1,086
	SOLARCARE TECHNOLOGIES CORP	Penn	ARMY	RDTE/Other Research & Development-Explor D	475
	SOUTHERN RESEARCH INSTITUTE	Alabama	NAVY	RDTE/Other Research & Development-Explor D	49
	SOUTHWEST RESEARCH INSTITUTE	Texas	ARMY	RDTE/Other Research & Development-Explor D	635
					533

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AZ12 (CONTINUED)					
	SPARTA INC	California	ARMY NAVY	RDTE/Other Research & Development-Explor D RDTE/Other Research & Development-Explor D	\$ 89 198
		STATE TOTAL			287
	SPARTON CORPORATION	Michigan	NAVY	RDTE/Other Research & Development-Explor D	100
	SPECTRA TECHNOLOGY INC	Washington	NAVY	RDTE/Other Research & Development-Explor D	62
	SRI INTERNATIONAL	California	ARMY NAVY USAF	RDTE/Other Research & Development-Explor D RDTE/Other Research & Development-Explor D RDTE/Other Research & Development-Explor D	250 253 50
		STATE TOTAL			553
	STANFORD UNIVERSITY	California	ARMY	RDTE/Other Research & Development-Explor D	652
	STERLING BAKERY INC	Texas	ARMY	RDTE/Other Research & Development-Explor D	79
	STRUCTURAL ENGINEERING CONSULT	California	ARMY	RDTE/Other Research & Development-Explor D	43
	SUNDSTRAND DATA CONTROL INC	Washington	USAF	RDTE/Other Research & Development-Explor D	75
	SUPERCONDUCTOR TECHNOLOGIES	California	NAVY	RDTE/Other Research & Development-Explor D	49
	SYMBOTECH INC	Conn	ARMY	RDTE/Other Research & Development-Explor D	39
	TECHNICAL SOLUTIONS INC	New Mexico	ARMY	RDTE/Other Research & Development-Explor D	200
	TERA RESEARCH INC	California	NAVY	RDTE/Other Research & Development-Explor D	60
	TEXAS INSTRUMENTS INC	Texas	USAF	RDTE/Other Research & Development-Explor D	250
	TEXAS RESEARCH INTERNATIONAL	Texas	NAVY	RDTE/Other Research & Development-Explor D	682
	THERMEDICS INC	Mass	ARMY	RDTE/Other Research & Development-Explor D	900
	THIOL CORPORATION	Alabama	NAVY	RDTE/Other Research & Development-Explor D	121
		Maryland	ARMY	RDTE/Other Research & Development-Explor D	135
		Utah	NAVY	RDTE/Other Research & Development-Explor D	285
		Penn	ARMY	RDTE/Other Research & Development-Explor D	541
	THREE C SYSTEMS INC				58
	CONTRACTOR TOTAL				

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AZ12 (CONTINUED)					
	TITAN CORPORATION	New Mexico	ARMY	RDTE/Other Research & Development-Explor D	312
	TORRINGTON COMPANY THE	Conn	ARMY	RDTE/Other Research & Development-Explor D	361
	TRACOR AEROSPACE INC	Texas	NAVY	RDTE/Other Research & Development-Explor D	50
		Utah	ARMY	RDTE/Other Research & Development-Explor D	149
	CONTRACTOR TOTAL				199
	TRW INC	California	USAF	RDTE/Other Research & Development-Explor D	510
	TSI INCORPORATED	Minnesota	ARMY	RDTE/Other Research & Development-Explor D	1,020
	TULANE UNIVERSITY	Louisiana	ARMY	RDTE/Other Research & Development-Explor D	75
	ULTROX INTERNATIONAL	California	ARMY	RDTE/Other Research & Development-Explor D	140
	UNITED STATES DEPT OF COMMERCE	Maryland	NAVY	RDTE/Other Research & Development-Explor D	40
	UNITED STATES DEPT TRANSPORTN	D.C.	NAVY	RDTE/Other Research & Development-Explor D	305
	UNITED TECHNOLOGIES CORP	Conn	ARMY	RDTE/Other Research & Development-Explor D	3,668
		Florida	NAVY	RDTE/Other Research & Development-Explor D	450
	CONTRACTOR TOTAL				4,118
	UNIVERSITY NC AT CHAPEL HL	N Carolina	ARMY	RDTE/Other Research & Development-Explor D	1,068
	UNIVERSITY OF DAYTON INC	Ohio	USAF	RDTE/Other Research & Development-Explor D	97
	UNIVERSITY OF ILLINOIS	Illinois	ARMY	RDTE/Other Research & Development-Explor D	308
	UNIVERSITY OF MARYLAND	Maryland	ARMY	RDTE/Other Research & Development-Explor D	40
	UNIVERSITY OF MASSACHUSETTS	Mass	ARMY	RDTE/Other Research & Development-Explor D	200
	UNIVERSITY OF MIAMI INC	Florida	NAVY	RDTE/Other Research & Development-Explor D	150
	UNIVERSITY OF MISSISSIPPI	Miss	NAVY	RDTE/Other Research & Development-Explor D	128
	UNIVERSITY OF PITTSBURGH	Penn	USAF	RDTE/Other Research & Development-Explor D	47
	UNIVERSITY OF SOUTH DAKOTA	S Dakota	ARMY	RDTE/Other Research & Development-Explor D	60
	UNIVERSITY OF TEXAS SYSTEM	Texas	USAF	RDTE/Other Research & Development-Explor D	115

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AZ12 (CONTINUED)					
US DOE		Tennessee	NAVY	RDTE/Other Research & Development-Explor D	260
		Washington	NAVY	RDTE/Other Research & Development-Explor D	72
	CONTRACTOR TOTAL				332
UTAH STATE UNIVERSITY		Utah	USAF	RDTE/Other Research & Development-Explor D	1,500
UVEX WINTER OPTICAL INC		Rhode Isld	ARMY	RDTE/Other Research & Development-Explor D	208
VENTURE SCIENTIFIC INC		Texas	ARMY	RDTE/Other Research & Development-Explor D	50
VIASAT INC		California	NAVY	RDTE/Other Research & Development-Explor D	650
WESTINGHOUSE ELECTRIC CORP		Maryland	ARMY	RDTE/Other Research & Development-Explor D	138
		Penn	USAF	RDTE/Other Research & Development-Explor D	300
	CONTRACTOR TOTAL				438
WRIGHT STATE UNIVERSITY		Ohio	USAF	RDTE/Other Research & Development-Explor D	143
WYLE LABORATORIES		California	USAF	RDTE/Other Research & Development-Explor D	168
XFORM. INC.		New York	ARMY	RDTE/Other Research & Development-Explor D	52
YARDNEY TECHNICAL PRODUCTS		Conn	NAVY	RDTE/Other Research & Development-Explor D	260
R&D TOTAL					109,579
AZ13 A A I CORPORATION		Maryland	ARMY	RDTE/Other Research & Development-Advanced	1,528
ADVANCED COMPOSITE PRODUCTS		Conn	ARMY	RDTE/Other Research & Development-Advanced	235
ADVANCED FUEL RESEARCH INC		Conn	ARMY	RDTE/Other Research & Development-Advanced	232
ADVANCED PROCESSING LABS		California	NAVY	RDTE/Other Research & Development-Advanced	275
AERO OPTICS INC		California	USAF	RDTE/Other Research & Development-Advanced	150
ALLIANT TECHSYSTEMS INC		Minnesota	NAVY	RDTE/Other Research & Development-Advanced	106
AMPTK INC		Mass	USAF	RDTE/Other Research & Development-Advanced	1,392
ANALYTIC SCIENCE CORP THE		Florida	USAF	RDTE/Other Research & Development-Advanced	310
ANALYTIX GROUP		Texas	ARMY	RDTE/Other Research & Development-Advanced	42

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F&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
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AZ13 (CONTINUED)

APPLIED ORDNANCE TECHNOLOGY	Virginia	NAVY	RDTE/Other Research & Development-Advanced		37
ATMOSPHERIC ENVIRONMENTAL RES	Mass	USAF	RDTE/Other Research & Development-Advanced		282
AUTOMATION MANAGEMENT CONS	Maryland	NAVY	RDTE/Other Research & Development-Advanced		60
AVCO CORPORATION	Conn	ARMY	RDTE/Other Research & Development-Advanced		227
B K DYNAMICS INC	Maryland	NAVY	RDTE/Other Research & Development-Advanced		417
BABCOCK & WILCOX COMPANY THE	Ohio	NAVY	RDTE/Other Research & Development-Advanced		2,702
BAKER WILFRED ENGINEERING	Texas	USAF	RDTE/Other Research & Development-Advanced		109
BALL CORPORATION	California	USAF	RDTE/Other Research & Development-Advanced		854
BAND LAVIS & ASSOCIATES INC	Maryland	ARMY	RDTE/Other Research & Development-Advanced		550
BARR ASSOCIATES INCORPORATED	Mass	ARMY	RDTE/Other Research & Development-Advanced		141
BDM INTERNATIONAL INC	Virginia	USAF	RDTE/Other Research & Development-Advanced		3,157
BELL HELICOPTER TEXTRON INC	Texas	ARMY	RDTE/Other Research & Development-Advanced		349
BRUNSWICK CORPORATION	Florida	ARMY	RDTE/Other Research & Development-Advanced		1,738
C V D INCORPORATED	Mass	USAF	RDTE/Other Research & Development-Advanced		155
CALSPAN CORPORATION	New York	USAF	RDTE/Other Research & Development-Advanced		44
CANADIAN COMMERCIAL CORP	CANADA	ARMY USAF	RDTE/Other Research & Development-Advanced RDTE/Other Research & Development-Advanced		5,833 42
STATE TOTAL					5,875
CARNEGIE MELLON UNIVERSITY	Penn	USAF	RDTE/Other Research & Development-Advanced		25,959
CEMCOM CORPORATION	Maryland	NAVY	RDTE/Other Research & Development-Advanced		125
COLEMAN RESEARCH CORPORATION	Florida	NAVY	RDTE/Other Research & Development-Advanced		563
CORNING INC	New York	USAF	RDTE/Other Research & Development-Advanced		838
DAEDALEAN INC	Maryland	NAVY	RDTE/Other Research & Development-Advanced		518
DRAPER CHARLES STARK LAB INC	Mass	NAVY	RDTE/Other Research & Development-Advanced		146

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AZ13 (CONTINUED)					
	DYNAMET TECHNOLOGY INC	Mass	ARMY	RDTE/Other Research & Development-Advanced	114
	ELECTRONIC COMPONENT SALES	Maryland	NAVY	RDTE/Other Research & Development-Advanced	300
	FABEL SYSTEM CORP	Florida	USAF	RDTE/Other Research & Development-Advanced	260
	FOSTER MILLER INC	Mass	ARMY	RDTE/Other Research & Development-Advanced	96
			USAF	RDTE/Other Research & Development-Advanced	253
	STATE TOTAL				349
	FROST ENGINEERING DEVELOPMENT	Colorado	USAF	RDTE/Other Research & Development-Advanced	150
	GENERAL ATOMICS	California	ARMY	RDTE/Other Research & Development-Advanced	60
	GENERAL DYNAMICS CORPORATION	California	USAF	RDTE/Other Research & Development-Advanced	886
	GENERAL ELECTRIC COMPANY	Mass	ARMY	RDTE/Other Research & Development-Advanced	110
	GEO CENTERS INC	New Jersey	NAVY	RDTE/Other Research & Development-Advanced	488
	GEORGIA TECH RESEARCH CORP	Georgia	NAVY	RDTE/Other Research & Development-Advanced	378
	H M J CORPORATION	Maryland	USAF	RDTE/Other Research & Development-Advanced	68
	HUGHES AIRCRAFT COMPANY	California	USAF	RDTE/Other Research & Development-Advanced	2,836
	INDUSTRIAL QUALITY INC	Maryland	ARMY	RDTE/Other Research & Development-Advanced	50
	INTERNATIONAL BUS MCHS CORP	New York	NAVY	RDTE/Other Research & Development-Advanced	336
		Virginia	NAVY	RDTE/Other Research & Development-Advanced	124
	CONTRACTOR TOTAL				460
	ITT CORPORATION	New Jersey	USAF	RDTE/Other Research & Development-Advanced	440
	KAISER OPTICAL SYSTEMS INC	Michigan	NAVY	RDTE/Other Research & Development-Advanced	149
	LOCKHEED CORPORATION	California	USAF	RDTE/Other Research & Development-Advanced	938
	LOCKHEED MISSILES & SPACE CO	California	ARMY	RDTE/Other Research & Development-Advanced	120
			USAF	RDTE/Other Research & Development-Advanced	800
	STATE TOTAL				920
	LOGICON INC	California	ARMY	RDTE/Other Research & Development-Advanced	150

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AZ13 (CONTINUED)					
	LORAL CORPORATION	California	NAVY	RDTE/Other Research & Development-Advanced	124
		New York	USAF	RDTE/Other Research & Development-Advanced	100
	CONTRACTOR TOTAL				224
	MARTIN MARIETTA CORPORATION	California	USAF	RDTE/Other Research & Development-Advanced	250
		Colorado	USAF	RDTE/Other Research & Development-Advanced	500
		Florida	USAF	RDTE/Other Research & Development-Advanced	1,591
	CONTRACTOR TOTAL				2,341
	MASSACHSTTS INST OF TECHNOLOGY	Mass	USAF	RDTE/Other Research & Development-Advanced	375,932
	MATERIALS & ELECTROCHEMICAL	Arizona	ARMY	RDTE/Other Research & Development-Advanced	100
	MCDONNELL DOUGLAS HELICOPTER	Arizona	ARMY	RDTE/Other Research & Development-Advanced	232
	MERCURY COMPUTER SYSTEMS INC	Mass	NAVY	RDTE/Other Research & Development-Advanced	42
	METROLASER	California	USAF	RDTE/Other Research & Development-Advanced	216
	MIRAGE SYSTEMS	California	ARMY	RDTE/Other Research & Development-Advanced	401
		Virginia	ARMY	RDTE/Other Research & Development-Advanced	510
	CONTRACTOR TOTAL				911
	MISSION RESEARCH CORPORATION	California	NAVY	RDTE/Other Research & Development-Advanced	344
	MODULAR COMPONENTS NATIONAL	Maryland	USAF	RDTE/Other Research & Development-Advanced	50
	MYSTECH ASSOCIATES INC	Conn	NAVY	RDTE/Other Research & Development-Advanced	49
	NEOCERA INC	New Jersey	USAF	RDTE/Other Research & Development-Advanced	48
	NICHOLS RESEARCH CORPORATION	Alabama	USAF	RDTE/Other Research & Development-Advanced	200
	NORTHWESTERN UNIVERSITY	Illinois	ARMY	RDTE/Other Research & Development-Advanced	99
	O A O CORPORATION	Maryland	NAVY	RDTE/Other Research & Development-Advanced	331
	OLIN CORP	Tennessee	ARMY	RDTE/Other Research & Development-Advanced	2,926
	ORINCON CORPORATION	California	NAVY	RDTE/Other Research & Development-Advanced	697

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## PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AZ13 (CONTINUED)

PARKER KINETIC DESIGN INC	Florida	USAF	RDTE/Other Research & Development-Advanced	\$	4,641
PATHFINDER SOFTWARE INC	Colorado	NAVY	RDTE/Other Research & Development-Advanced		469
PHYSICAL RESEARCH INC	California	USAF	RDTE/Other Research & Development-Advanced		51
R & D ASSOCIATES	California	USAF	RDTE/Other Research & Development-Advanced		110
RADEX INC	Mass	USAF	RDTE/Other Research & Development-Advanced		415
RASOR ASSOCIATES INC	California	USAF	RDTE/Other Research & Development-Advanced		250
RENSELAER POLYTECHNIC INST	New York	USAF	RDTE/Other Research & Development-Advanced		400
RESEARCH SCIENCES INCORPORATED	Mass	USAF	RDTE/Other Research & Development-Advanced		183
RGI INC	California	NAVY	RDTE/Other Research & Development-Advanced		1,469
ROCKWELL INTERNATIONAL CORP	California	ARMY	RDTE/Other Research & Development-Advanced		155
		NAVY	RDTE/Other Research & Development-Advanced		153
		USAF	RDTE/Other Research & Development-Advanced		1,200
					1,508
STATE TOTAL					
ROCKWELL POWER SYSTEMS	New Mexico	USAF	RDTE/Other Research & Development-Advanced		374
S F A INC	D.C.	NAVY	RDTE/Other Research & Development-Advanced		1,756
S T SYSTEMS CORPORATION	D.C.	USAF	RDTE/Other Research & Development-Advanced		215
SCHWARTZ ELECTRO-OPTICS INC	Florida	USAF	RDTE/Other Research & Development-Advanced		109
SOUTHWEST RESEARCH INSTITUTE	Texas	ARMY	RDTE/Other Research & Development-Advanced		150
SRI INTERNATIONAL	California	USAF	RDTE/Other Research & Development-Advanced		459
SUNDSTRAND CORPORATION	California	ARMY	RDTE/Other Research & Development-Advanced		110
SUNREZ CORPORATION	California	ARMY	RDTE/Other Research & Development-Advanced		156
SYSTEMS ENGINEERING ASSOCIATES	California	NAVY	RDTE/Other Research & Development-Advanced		71
TELEDYNE INDUSTRIES INC	Alabama	USAF	RDTE/Other Research & Development-Advanced		250
TEXAS RESEARCH INTERNATIONAL	Texas	NAVY	RDTE/Other Research & Development-Advanced		210
THERMACORE INC	Penn	USAF	RDTE/Other Research & Development-Advanced		155

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AZ13 (CONTINUED)					
	TREMETRICS INC	Texas	USAF	RDTE/Other Research & Development-Advanced	414
	ULTRAMET	California	ARMY	RDTE/Other Research & Development-Advanced	49
	UNITED STATES DEPT OF COMMERCE	Maryland	NAVY	RDTE/Other Research & Development-Advanced	35
	UNITED TECHNOLOGIES CORP	Florida	NAVY	RDTE/Other Research & Development-Advanced	152
	UNIVERSAL SERVICES ASSOCIATES	Penn	NAVY	RDTE/Other Research & Development-Advanced	140
	UNIVERSITY OF ARIZONA	Arizona	USAF	RDTE/Other Research & Development-Advanced	440
	UNIVERSITY OF CENTRAL FLORIDA	Florida	NAVY	RDTE/Other Research & Development-Advanced	4,023
	UNIVERSITY OF FLORIDA	Florida	USAF	RDTE/Other Research & Development-Advanced	35
	UNIVERSITY OF MARYLAND	Maryland	ARMY	RDTE/Other Research & Development-Advanced	50
	UNIVERSITY OF PITTSBURGH	Penn	USAF	RDTE/Other Research & Development-Advanced	1,004
	UNIVERSITY OF SOUTHERN CALIF	California	USAF	RDTE/Other Research & Development-Advanced	437
	UNIVERSITY OF UTAH	New Mexico	ARMY	RDTE/Other Research & Development-Advanced	125
	US DOE	Maryland	NAVY	RDTE/Other Research & Development-Advanced	200
	VISIDYNE INC	Mass	USAF	RDTE/Other Research & Development-Advanced	2,018
	WINDROCK ASSOCIATES	Tennessee	ARMY	RDTE/Other Research & Development-Advanced	150
	WORCESIER PLYTHNIC INSTITUTE	Mass	ARMY	RDTE/Other Research & Development-Advanced	82
	R&D TOTAL				465,829
AZ14	ALLIANT TECHSYSTEMS INC	Minnesota	ARMY	RDTE/Other Research & Development-Engr Dev	888
	AMERICAN RESEARCH CORP	Virginia	ARMY	RDTE/Other Research & Development-Engr Dev	189
	ANALYTIC SCIENCE CORP THE	Florida	USAF	RDTE/Other Research & Development-Engr Dev	779
	APPLIED TECHNOLOGIES INC	Colorado	ARMY	RDTE/Other Research & Development-Engr Dev	226
	BDM INTERNATIONAL INC	California	USAF	RDTE/Other Research & Development-Engr Dev	66
	BOEING AEROSPACE & ELECTRONICS	Washington	USAF	RDTE/Other Research & Development-Engr Dev	2,525
	BOOZ ALLEN & HAMILTON INC	Maryland	ARMY	RDTE/Other Research & Development-Engr Dev	7,138

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AZ14 (CONTINUED)					
	BOURNLEA INSTRUMENTS LTD	UNITED KIN	NAVY	RDTE/Other Research & Development-Engr Dev	57
	C V D INCORPORATED	Mass	USAF	RDTE/Other Research & Development-Engr Dev	159
	CAE INDUSTRIES LTD	Texas	ARMY	RDTE/Other Research & Development-Engr Dev	285
	CATHOLIC UNIVERSITY OF AMERICA	D.C.	ARMY	RDTE/Other Research & Development-Engr Dev	83
	COLEMAN RESEARCH CORPORATION	Florida	NAVY	RDTE/Other Research & Development-Engr Dev	2,167
	CTA INCORPORATED	Ohio	USAF	RDTE/Other Research & Development-Engr Dev	1,184
	ECONOMICS TECHNOLOGY ASSOC	California	NAVY	RDTE/Other Research & Development-Engr Dev	411
	ELECTROSPACE SYSTEMS INC	Virginia	ARMY	RDTE/Other Research & Development-Engr Dev	1,288
	ENVIRONMENTAL RES INST OF MICH	Michigan	USAF	RDTE/Other Research & Development-Engr Dev	38
	FERMIONICS CORPORATION	California	NAVY	RDTE/Other Research & Development-Engr Dev	50
	GENERAL ANALYTICS INC	Georgia	NAVY	RDTE/Other Research & Development-Engr Dev	40
	GENERAL ELECTRIC COMPANY	Ohio	NAVY	RDTE/Other Research & Development-Engr Dev	200
	HARRIS CORPORATION	Florida	ARMY	RDTE/Other Research & Development-Engr Dev	19,181
	HILTON SYSTEMS INC	Miss	NAVY	RDTE/Other Research & Development-Engr Dev	3,759
	INDUSTRIAL QUALITY INC	Maryland	NAVY	RDTE/Other Research & Development-Engr Dev	46
	INFORMATION MANAGEMENT CONS	Virginia	ARMY	RDTE/Other Research & Development-Engr Dev	74
	INTERMETRICS INC	Penn	NAVY	RDTE/Other Research & Development-Engr Dev	65
	LITTLE ARTHUR D INC	Mass	USAF	RDTE/Other Research & Development-Engr Dev	1,846
	MERCER UNIVERSITY	Georgia	USAF	RDTE/Other Research & Development-Engr Dev	802
	MICROTURBO NORTH AMERICA INC	Texas	ARMY	RDTE/Other Research & Development-Engr Dev	1,640
	MITRE CORPORATION	Mass	USAF	RDTE/Other Research & Development-Engr Dev	247,857
	ODYSSEY RESEARCH ASSOCIATES	New York	NAVY	RDTE/Other Research & Development-Engr Dev	577
	PHILLIPS CARTNER & CO INC	Virginia	ARMY	RDTE/Other Research & Development-Engr Dev	70
	PRAGMATICS INC	Virginia	ARMY	RDTE/Other Research & Development-Engr Dev	290

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	-R&D DESCRIPTION-		\$
AZ14 (CONTINUED)						
	RESEARCH APPLICATIONS INC	Texas	USAF	RDTE/Other Research & Development-Engr Dev		141
	RESOURCE CONSULTANTS INC	California	NAVY	RDTE/Other Research & Development-Engr Dev		520
	RF MICROSYSTEMS INC	California	NAVY	RDTE/Other Research & Development-Engr Dev		704
	SCIENCE APPLICATIONS INTL CORP	California	USAF	RDTE/Other Research & Development-Engr Dev		4,327
		New Mexico	ARMY	RDTE/Other Research & Development-Engr Dev		775
		Virginia	ARMY	RDTE/Other Research & Development-Engr Dev		13,022
	CONTRACTOR TOTAL					18,124
	SCIENCE RESEARCH LABORATORY	Mass	NAVY	RDTE/Other Research & Development-Engr Dev		105
	SHEARWATER INC	Conn	NAVY	RDTE/Other Research & Development-Engr Dev		140
	SIMTEC INC	Virginia	USAF	RDTE/Other Research & Development-Engr Dev		450
	SITA CORP	Virginia	ARMY	RDTE/Other Research & Development-Engr Dev		1,488
	SONALYSTS INC	Conn	NAVY	RDTE/Other Research & Development-Engr Dev		300
	TECHNOLOGY SOLUTIONS GRP INC	Virginia	ARMY	RDTE/Other Research & Development-Engr Dev		250
	TECHPLAN CORP	Virginia	NAVY	RDTE/Other Research & Development-Engr Dev		67
	TROYS WELDING INC	New Mexico	NAVY	RDTE/Other Research & Development-Engr Dev		32
	TRW INC	California	USAF	RDTE/Other Research & Development-Engr Dev		35
	UNIVERSITY OF UTAH	New Mexico	NAVY	RDTE/Other Research & Development-Engr Dev		35
	UNIVERSITY OF VIRGINIA	Virginia	ARMY	RDTE/Other Research & Development-Engr Dev		768
	WARDLAW GRANT DR	AUSTRALIA	ARMY	RDTE/Other Research & Development-Engr Dev		29
	WESTINGHOUSE ELECTRIC CORP	Maryland	NAVY	RDTE/Other Research & Development-Engr Dev		217
			USAF	RDTE/Other Research & Development-Engr Dev		69,171
	R&D TOTAL	STATE TOTAL				69,388
	AZ15 AMERICAN RESEARCH CORP	Virginia	ARMY	RDTE/Other Research & Development-Op Sys D		386,556
						50

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AZ15 (CONTINUED)

ANALYTICAL SERVICES & MATERIAL	Virginia	USAF	RDTE/Other Research & Development-Op	Sys D	\$ 200
AUTOMATION MANAGEMENT CONS	Maryland	NAVY	RDTE/Other Research & Development-Op	Sys D	575
B K DYNAMICS INC	Maryland	NAVY	RDTE/Other Research & Development-Op	Sys D	1,015
BATTELLE MEMORIAL INSTITUTE	Ohio	ARMY	RDTE/Other Research & Development-Op	Sys D	50
BDM INTERNATIONAL INC	California	ARMY	RDTE/Other Research & Development-Op	Sys D	402
BOHEIM REOLOGI INC	New Jersey	ARMY	RDTE/Other Research & Development-Op	Sys D	98
CAS INC	Alabama	ARMY	RDTE/Other Research & Development-Op	Sys D	115
ECONOMICS TECHNOLOGY ASSOC	California	NAVY	RDTE/Other Research & Development-Op	Sys D	1,539
FEMME COMP INC	Virginia	ARMY	RDTE/Other Research & Development-Op	Sys D	291
GEORGE MASON UNIVERSITY	Virginia	ARMY	RDTE/Other Research & Development-Op	Sys D	421
GEORGE WASHINGTON UNIV THE	D.C.	ARMY	RDTE/Other Research & Development-Op	Sys D	80
HARDIGG INDUSTRIES INC	Mass	ARMY	RDTE/Other Research & Development-Op	Sys D	333
HARRIS CORPORATION	Florida	ARMY	RDTE/Other Research & Development-Op	Sys D	1,850
I I T RESEARCH INSTITUTE	Illinois	USAF	RDTE/Other Research & Development-Op	Sys D	41,837
	New York	USAF	RDTE/Other Research & Development-Op	Sys D	440
CONTRACTOR TOTAL					42,277
INSTRUCTIONAL SCIENCE & DEV	California	NAVY	RDTE/Other Research & Development-Op	Sys D	353
KAMAN SCIENCES CORPORATION	Colorado	ARMY	RDTE/Other Research & Development-Op	Sys D	100
KAPPLER SAFETY GROUP INC	Alabama	NAVY	RDTE/Other Research & Development-Op	Sys D	49
KETRON INC	Maryland	ARMY	RDTE/Other Research & Development-Op	Sys D	329
LOCKHEED SANDERS INC	New Mexico	ARMY	RDTE/Other Research & Development-Op	Sys D	11,279
LOGISTICS MGT INSTITUTE	Maryland	ARMY	RDTE/Other Research & Development-Op	Sys D	25,819
LOWER BRULE WILDLIFE	S Dakota	OCE	RDTE/Other Research & Development-Op	Sys D	30
MAGNAVOX GOVT & INDUSTRIAL ELCTR	New Jersey	ARMY	RDTE/Other Research & Development-Op	Sys D	354

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AZ15 (CONTINUED)					
	MICRION CORPORATION	Mass	NAVY	RDTE/Other Research & Development-Op Sys D	285
	OKLAHOMA STATE UNIVERSITY	Oklahoma	USAF	RDTE/Other Research & Development-Op Sys D	53
	ONTAR CORPORATION	Mass	USAF	RDTE/Other Research & Development-Op Sys D	45
	OPTIMETRICS INC	Michigan	ARMY	RDTE/Other Research & Development-Op Sys D	74
	ORION INTL TECHNOLOGIES	New Mexico	ARMY	RDTE/Other Research & Development-Op Sys D	5,622
	PRAGMATICS INC	Virginia	ARMY	RDTE/Other Research & Development-Op Sys D	2,027
	PRC INC	California	NAVY	RDTE/Other Research & Development-Op Sys D	35
	PRESEARCH INCORPORATED	Virginia	NAVY	RDTE/Other Research & Development-Op Sys D	1,150
	RAYTHEON COMPANY	Mass	ARMY NAVY	RDTE/Other Research & Development-Op Sys D RDTE/Other Research & Development-Op Sys D	8,842 749
	STATE TOTAL				9,591
	RESOURCE CONSULTANTS INC	Virginia	NAVY	RDTE/Other Research & Development-Op Sys D	543
	RONA THOMAS P	Maryland	ARMY	RDTE/Other Research & Development-Op Sys D	50
	ROSCO LABORATORIES INC	New York	ARMY	RDTE/Other Research & Development-Op Sys D	198
	SCIENCE APPLICATIONS INTL CORP	Virginia	ARMY	RDTE/Other Research & Development-Op Sys D	6,234
	SHEPHERD J L & ASSOCIATES	California	NAVY	RDTE/Other Research & Development-Op Sys D	68
	SOUTHWEST RESEARCH INSTITUTE	KOREA, REP	ARMY	RDTE/Other Research & Development-Op Sys D	83-
	SRI INTERNATIONAL	California	ARMY	RDTE/Other Research & Development-Op Sys D	785
	STOTTLER HENKE ASSOCIATES	California	ARMY	RDTE/Other Research & Development-Op Sys D	50
	SURVICE ENGINEERING CO INC	Maryland	ARMY	RDTE/Other Research & Development-Op Sys D	1,044
	SYSTEMS CONTROL TECHNOLOGY	California	ARMY	RDTE/Other Research & Development-Op Sys D	50
	U S SPRINT COMMUNICATIONS CO	Virginia	ARMY	RDTE/Other Research & Development-Op Sys D	1,025
	UNITED TECHNOLOGIES CORP	Conn	NAVY	RDTE/Other Research & Development-Op Sys D	1,907
		Florida	ARMY	RDTE/Other Research & Development-Op Sys D	451



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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	NAVY	RDTE/Other Research & Development-Op	Sys D	\$
AZ15 (CONTINUED)								
CONTRACTOR TOTAL								
	UNIVERSITY OF CALIFORNIA	California	NAVY	RDTE/Other Research & Development-Op	Sys D			82
	UNIVERSITY OF SOUTHERN CALIF	California	ARMY	RDTE/Other Research & Development-Op	Sys D			533
	UNIVERSITY OF TEXAS SYSTEM	Texas	ARMY	RDTE/Other Research & Development-Op	Sys D			2,440
	UNIVERSITY OF VERMONT	Vermont	ARMY	RDTE/Other Research & Development-Op	Sys D			500
	VEXCEL CORPORATION	Colorado	ARMY	RDTE/Other Research & Development-Op	Sys D			14,268
R&D TOTAL								
	A T S S INC	California	USAF	RDTE/Other Research & Development-Mgmt & S				133,907
	ADVANCED TECHNOLOGY & RESEARCH	Maryland	NAVY	RDTE/Other Research & Development-Mgmt & S				192
	ADVANCED TECHNOLOGY MATERIALS	Conn	USAF	RDTE/Other Research & Development-Mgmt & S				34
	AEROSPACE TECHNOLOGY COMPANY	Virginia	ARMY	RDTE/Other Research & Development-Mgmt & S				50
	ALLIED SIGNAL AEROSPACE CO	Maryland	NAVY	RDTE/Other Research & Development-Mgmt & S				50
	ALPHATECH INC	Mass	ARMY	RDTE/Other Research & Development-Mgmt & S				462
	AM SOCIETY OF MECHANICAL ENGIN	New York	ARMY	RDTE/Other Research & Development-Mgmt & S				50
	AMHERST SYSTEMS INC	New York	USAF	RDTE/Other Research & Development-Mgmt & S				254
	ANALOG CIRCUIT DESIGN	Minnesota	NAVY	RDTE/Other Research & Development-Mgmt & S				47
	ANALYSIS & TECHNOLOGY INC	California	NAVY	RDTE/Other Research & Development-Mgmt & S				50
		Conn	NAVY	RDTE/Other Research & Development-Mgmt & S				115
								275
CONTRACTOR TOTAL								
	ANALYTICAL SOFTWARE INC	Georgia	ARMY	RDTE/Other Research & Development-Mgmt & S				390
	APPLIED MODERN	California	USAF	RDTE/Other Research & Development-Mgmt & S				100
	APPLIED RESEARCH ASSOC INC	N Carolina	USAF	RDTE/Other Research & Development-Mgmt & S				50
								47

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AZ16 (CONTINUED)					
	ATN MICROWAVE INC	Mass	USAF	RDTE/Other Research & Development-Mgmt & S	49
	AUBURN UNIVERSITY	Alabama	ARMY	RDTE/Other Research & Development-Mgmt & S	82
	AURORA ASSOCIATES	California	ARMY	RDTE/Other Research & Development-Mgmt & S	50
	BARRETT TECHNOLOGY INC	Mass	USAF	RDTE/Other Research & Development-Mgmt & S	50
	BERNIER & ASSOCIATES INC	Mass	USAF	RDTE/Other Research & Development-Mgmt & S	260
	BIO TECHNICAL RESOURCES INC	Wisconsin	USAF	RDTE/Other Research & Development-Mgmt & S	51
	BIODYNAMIC RESEARCH CORP	Texas	USAF	RDTE/Other Research & Development-Mgmt & S	66
	BIOMAGNETIC TECHNOLOGIES INC	California	USAF	RDTE/Other Research & Development-Mgmt & S	343
	BONNEVILLE SCIENTIFIC INC	Utah	USAF	RDTE/Other Research & Development-Mgmt & S	250
	BOWIE STATE COLLEGE	Maryland	ARMY	RDTE/Other Research & Development-Mgmt & S	79
	BRAIDTECH INC	Rhode Islid	USAF	RDTE/Other Research & Development-Mgmt & S	125
	CAD SYSTEMS, INC.	Georgia	ARMY	RDTE/Other Research & Development-Mgmt & S	80
	CALSPAN CORPORATION	New York	ARMY	RDTE/Other Research & Development-Mgmt & S	90
		Tennessee	USAF	RDTE/Other Research & Development-Mgmt & S	43,143
	CONTRACTOR TOTAL				43,233
	CARLOW ASSOCIATES INC	Virginia	ARMY	RDTE/Other Research & Development-Mgmt & S	85
	CFD RESEARCH CORPORATION	Alabama	ARMY	RDTE/Other Research & Development-Mgmt & S	250
	CHARLES RIVER ANALYTICS INC	Mass	NAVY USAF	RDTE/Other Research & Development-Mgmt & S RDTE/Other Research & Development-Mgmt & S	50 56
			STATE TOTAL		106
	CHARLES SYSTEMS CORP	Michigan	ARMY	RDTE/Other Research & Development-Mgmt & S	50
	CLEVELAND CRYSTALS INC	Ohio	USAF	RDTE/Other Research & Development-Mgmt & S	439
	COLEMAN RESEARCH CORPORATION	Florida	USAF	RDTE/Other Research & Development-Mgmt & S	275
	COMPUTER SCIENCES CORPORATION	Virginia	ARMY	RDTE/Other Research & Development-Mgmt & S	528

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AZ16 (CONTINUED)					
	CONDUCTUS INC	California	USAF	RDTE/Other Research & Development-Mgmt & S	\$ 50
	CONTINENTAL SYSTEMS TECHNOLOGY	Georgia	USAF	RDTE/Other Research & Development-Mgmt & S	57
	CREARE INC	N.H.	ARMY	RDTE/Other Research & Development-Mgmt & S	50
			USAF	RDTE/Other Research & Development-Mgmt & S	389
			STATE TOTAL		439
	CREATIVE OPTICS INC	Mass	ARMY	RDTE/Other Research & Development-Mgmt & S	50
	CRYSTAL ASSOCIATES INC	New Jersey	USAF	RDTE/Other Research & Development-Mgmt & S	50
	D M E CORP	Florida	USAF	RDTE/Other Research & Development-Mgmt & S	100
	DECISION SCIENCE APPLICATIONS	Virginia	ARMY	RDTE/Other Research & Development-Mgmt & S	341
			NAVY	RDTE/Other Research & Development-Mgmt & S	49
			STATE TOTAL		390
	DELEX SYSTEMS INCORPORATED	California	NAVY	RDTE/Other Research & Development-Mgmt & S	49
	DIGITAL SIGNAL CORPORATION	Virginia	NAVY	RDTE/Other Research & Development-Mgmt & S	210
	EAI CORPORATION	Maryland	ARMY	RDTE/Other Research & Development-Mgmt & S	292
	ELECTROCHEM INC	Mass	ARMY	RDTE/Other Research & Development-Mgmt & S	56
	ELECTRONIC DECISIONS INC	Illinois	USAF	RDTE/Other Research & Development-Mgmt & S	277
	EMCORE CORPORATION	New Jersey	USAF	RDTE/Other Research & Development-Mgmt & S	79
	ENVIRONMENTAL RES INST OF MICH	Michigan	NAVY	RDTE/Other Research & Development-Mgmt & S	463
	ENVIRONMENTAL SYSTEMS RES INST	California	ARMY	RDTE/Other Research & Development-Mgmt & S	2,597
	EPOCH ENGINEERING INC	Penn	NAVY	RDTE/Other Research & Development-Mgmt & S	53
	EXPERTSOFT	California	USAF	RDTE/Other Research & Development-Mgmt & S	250
	F & H APPLIED ASSOCIATES INC	New Jersey	USAF	RDTE/Other Research & Development-Mgmt & S	44
	FAAA ELECTRICAL	Mass	USAF	RDTE/Other Research & Development-Mgmt & S	439
	FAAC INCORPORATED	Michigan	ARMY	RDTE/Other Research & Development-Mgmt & S	51
	FIBERTEK INC	Virginia	NAVY	RDTE/Other Research & Development-Mgmt & S	50

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AZ16 (CONTINUED)

FORWARD VISION	Texas	USAF	RDTE/Other Research & Development-Mgmt & S	\$	61
FOSTER MILLER INC	Mass	ARMY	RDTE/Other Research & Development-Mgmt & S		56
		USAF	RDTE/Other Research & Development-Mgmt & S		422
					478
		STATE TOTAL			
GALAXY MICROSYSTEMS INC	Texas	USAF	RDTE/Other Research & Development-Mgmt & S		49
GENERAL ELECTRIC COMPANY	New Jersey	NAVY	RDTE/Other Research & Development-Mgmt & S		1,031
GEOMET INC	Maryland	ARMY	RDTE/Other Research & Development-Mgmt & S		27
GEORGIA TECH RESEARCH CORP	Florida	USAF	RDTE/Other Research & Development-Mgmt & S		76
	Georgia	ARMY	RDTE/Other Research & Development-Mgmt & S		189
					265
		CONTRACTOR TOTAL			
GUPTA PRADEEP K INC	New York	USAF	RDTE/Other Research & Development-Mgmt & S		50
HADLOCK FRANK & ASSOCIATES	Tennessee	NAVY	RDTE/Other Research & Development-Mgmt & S		100
HNC INC	California	USAF	RCTE/Other Research & Development-Mgmt & S		250
HONEYWELL FEDERAL SYSTEMS INC	Virginia	ARMY	RDTE/Other Research & Development-Mgmt & S		234
HUGHES AIRCRAFT COMPANY	California	USAF	RDTE/Other Research & Development-Mgmt & S		345
HUMAN PERFORMANCE RESEARCH INC	California	NAVY	RDTE/Other Research & Development-Mgmt & S		47
I I T RESEARCH INSTITUTE	Illinois	ARMY	RDTE/Other Research & Development-Mgmt & S		1,002
I NET INC	Maryland	ARMY	RDTE/Other Research & Development-Mgmt & S		93
IMAGINATION WORKS THE	California	NAVY	RDTE/Other Research & Development-Mgmt & S		455
INTEGRATED PARALLEL TECHNOLOGY	California	ARMY	RDTE/Other Research & Development-Mgmt & S		50
INTEGRATED SENSORS INC	New York	ARMY	RDTE/Other Research & Development-Mgmt & S		50
INTEGRATED SOFTWARE INC	Florida	USAF	RDTE/Other Research & Development-Mgmt & S		48
INTELLIGENT AUTOMATION INC	Maryland	USAF	RDTE/Other Research & Development-Mgmt & S		190
INTERNATIONAL COMPUTERS & TELC	Maryland	NAVY	RDTE/Other Research & Development-Mgmt & S		299

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AZ16 (CONTINUED)					
	ISM TECHNOLOGIES INC	California	ARMY	RDTE/Other Research & Development-Mgmt & S	\$ 264
	ISOTHERMAL SYSTEMS RESEARCH	Kentucky	USAF	RDTE/Other Research & Development-Mgmt & S	99
	ISX CORPORATION	California	ARMY	RDTE/Other Research & Development-Mgmt & S	50
	JIL SYSTEMS INC	California	NAVY	RDTE/Other Research & Development-Mgmt & S	83
	KARTA TECHNOLOGY INC	Texas	USAF	RDTE/Other Research & Development-Mgmt & S	51
	KEYSTONE COMPUTER ASSOCIATES	Penn	NAVY	RDTE/Other Research & Development-Mgmt & S	80
	KLEIN ASSOCIATES INC	Ohio	USAF	RDTE/Other Research & Development-Mgmt & S	142
	KTAADN INC	Mass	USAF	RDTE/Other Research & Development-Mgmt & S	245
	LINDSEY ASSOCIATES	Illinois	NAVY	RDTE/Other Research & Development-Mgmt & S	50
	LOGISTICS MGT INSTITUTE	D.C.	OCE	RDTE/Other Research & Development-Mgmt & S	877
	LUXTRON CORPORATION	California	NAVY	RDTE/Other Research & Development-Mgmt & S	100
	M P D INC	Ohio	USAF	RDTE/Other Research & Development-Mgmt & S	82
	M R J INC	Virginia	USAF	RDTE/Other Research & Development-Mgmt & S	49
	M TECHNOLOGIES	Penn	USAF	RDTE/Other Research & Development-Mgmt & S	243
	MAC AULAY BROWN INC	Ohio	USAF	RDTE/Other Research & Development-Mgmt & S	430
	MACHINE PERCEPTION INTL	California	ARMY	RDTE/Other Research & Development-Mgmt & S	51
	MANAGEMENT & PERSONNEL SYSTEM	California	ARMY	RDTE/Other Research & Development-Mgmt & S	37
	MANDEX INC	Virginia	NAVY	RDTE/Other Research & Development-Mgmt & S	50
	MARTINGALE RESEARCH CORP	Texas	NAVY	RDTE/Other Research & Development-Mgmt & S	499
	MEI ASSOCIATES INC	Texas	USAF	RDTE/Other Research & Development-Mgmt & S	82
	MEMBRANE TECHNOLOGY & RESEARCH	California	ARMY USAF	RDTE/Other Research & Development-Mgmt & S RDTE/Other Research & Development-Mgmt & S	281 66
	MISSION RESEARCH CORPORATION	California	USAF	RDTE/Other Research & Development-Mgmt & S	347
	STATE TOTAL				49

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## PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

FISCAL YEAR 1991

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AZ16 (CONTINUED)					
	MONTEREY TECH	California	ARMY	RDTE/Other Research & Development-Mgmt & S	50
	MORRIS BROWN RESEARCH INSTI	Georgia	ARMY	RDTE/Other Research & Development-Mgmt & S	96
	NEW MEXICO STATE UNIVERSITY	New Mexico	ARMY	RDTE/Other Research & Development-Mgmt & S	6,584
	OMNITEK INC	Virginia	USAF	RDTE/Other Research & Development-Mgmt & S	50
	ONTAR CORPORATION	Mass	ARMY	RDTE/Other Research & Development-Mgmt & S	386
	OPERATIONAL TECHNOLOGIES CORP	Texas	USAF	RDTE/Other Research & Development-Mgmt & S	267
	ORINCON CORPORATION	California	NAVY	RDTE/Other Research & Development-Mgmt & S	793
		Hawaii	NAVY	RDTE/Other Research & Development-Mgmt & S	48
	CONTRACTOR TOTAL				841
	ORION INTL TECHNOLOGIES	New Mexico	USAF	RDTE/Other Research & Development-Mgmt & S	526
	ORION RESEARCH INCORPORATED	Florida	ARMY	RDTE/Other Research & Development-Mgmt & S	488
		Virginia	ARMY	RDTE/Other Research & Development-Mgmt & S	210
		PANAMA	ARMY	RDTE/Other Research & Development-Mgmt & S	847
	CONTRACTOR TOTAL				1,545
	PACIFIC SIERRA RESEARCH CORP	California	USAF	RDTE/Other Research & Development-Mgmt & S	53
	PDA ENGINEERING	California	USAF	RDTE/Other Research & Development-Mgmt & S	190
	PHYSICAL OPTICS CORPORATION	California	ARMY	RDTE/Other Research & Development-Mgmt & S	50
	PHYSICAL RESEARCH INC	California	ARMY	RDTE/Other Research & Development-Mgmt & S	234
	PHYSICAL SCIENCES INC	Mass	NAVY	RDTE/Other Research & Development-Mgmt & S	57
	PRECISION COMBUSTION INC	Conn	ARMY	RDTE/Other Research & Development-Mgmt & S	59
	PRINCETON SCIENTIFIC ENTRPRSS	New Jersey	ARMY	RDTE/Other Research & Development-Mgmt & S	193
	PROPULSION DYNAMICS INC	Maryland	ARMY	RDTE/Other Research & Development-Mgmt & S	60
	Q DOT INC	Colorado	ARMY	RDTE/Other Research & Development-Mgmt & S	315
		USAF	RDTE/Other Research & Development-Mgmt & S	479	

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FISCAL YEAR 1991

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AZ16 (CONTINUED)

STATE TOTAL					\$
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QUADRAX ADV MATERIALS SYS	Rhode Isld	ARMY	RDTE/Other	Research & Development-Mgmt & S	794
QUALITY DECISION	Mass	USAF	RDTE/Other	Research & Development-Mgmt & S	50
QUANTICS INC	Penn	NAVY	RDTE/Other	Research & Development-Mgmt & S	50
ROCHESTER PHOTONICS CORP	New York	USAF	RDTE/Other	Research & Development-Mgmt & S	632
RUTSTEIN ALEX & ASSOCIATES	Ohio	ARMY	RDTE/Other	Research & Development-Mgmt & S	99
SATCON TECHNOLOGY CORPORATION	Mass	ARMY	RDTE/Other	Research & Development-Mgmt & S	85
SCHLUMBERGER TECHNOLOGY CORP	Michigan	ARMY	RDTE/Other	Research & Development-Mgmt & S	50
SCHNEIDER INC	Tennessee	USAF	RDTE/Other	Research & Development-Mgmt & S	2,246
SCHWARTZ ELECTRO-OPTICS INC	Florida	ARMY	RDTE/Other	Research & Development-Mgmt & S	91,153
	Mass	USAF	RDTE/Other	Research & Development-Mgmt & S	55
					50
					105
SCIENCE & TECHNOLOGY CORP	Virginia	ARMY	RDTE/Other	Research & Development-Mgmt & S	152
SCIENCE APPLICATIONS INTL CORP	Virginia	ARMY	RDTE/Other	Research & Development-Mgmt & S	4,769
SIGNAL ENGINEERING INC	California	USAF	RDTE/Other	Research & Development-Mgmt & S	50
SIMULA INC	Arizona	ARMY	RDTE/Other	Research & Development-Mgmt & S	99
		USAF	RDTE/Other	Research & Development-Mgmt & S	161
					260

STATE TOTAL

SOLUTIONS UNLIMITED	Virginia	USAF	RDTE/Other	Research & Development-Mgmt & S	51
SONALYSTS INC	Conn	NAVY	RDTE/Other	Research & Development-Mgmt & S	60
SOUTHERN RESEARCH INSTITUTE	Alabama	ARMY	RDTE/Other	Research & Development-Mgmt & S	177
SPARTA INC	California	USAF	RDTE/Other	Research & Development-Mgmt & S	300
SPECTRA SYSTEMS INC	Ohio	ARMY	RDTE/Other	Research & Development-Mgmt & S	50
SRI INTERNATIONAL	California	ARMY	RDTE/Other	Research & Development-Mgmt & S	786

## PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

FISCAL YEAR 1991

(AMOUNTS IN THOUSANDS)

CONTRACTOR NAME	ST/ENTRY	DEPT	R&D DESCRIPTION
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AZ16 (CONTINUED)

SRS TECHNOLOGIES	Alabama	USAF	RDTE/Other Research & Development-Mgmt & S	\$	50
SUPERIOR VACUUM TECHNOLOGY	Minnesota	USAF	RDTE/Other Research & Development-Mgmt & S		50
SURFACE OPTICS CORP	California	USAF	RDTE/Other Research & Development-Mgmt & S		51
SUSQUEHANNA RESOURCES ENVRNMNT	New York	NAVY	RDTE/Other Research & Development-Mgmt & S		480
SVERDRUP TECHNOLOGY INC	Tennessee	USAF	RDTE/Other Research & Development-Mgmt & S		47,842
SYRACUSE UNIVERSITY	Georgia	ARMY	RDTE/Other Research & Development-Mgmt & S		93
SYSTEMS EXPLORATION INC	California	USAF	RDTE/Other Research & Development-Mgmt & S		50
SYSTEMS PLANNING & ANALYSIS	Virginia	NAVY	RDTE/Other Research & Development-Mgmt & S		342
TAU CORPORATION	California	ARMY	RDTE/Other Research & Development-Mgmt & S		50
TDA RESEARCH INC	Colorado	USAF	RDTE/Other Research & Development-Mgmt & S		54
TECHNICAL & MGT SVCS CORP	Maryland	ARMY	RDTE/Other Research & Development-Mgmt & S		110
TEM ASSOCIATES	D.C.	USAF	RDTE/Other Research & Development-Mgmt & S		150
TEXAS A & M RESEARCH FDN	Texas	OCE	RDTE/Other Research & Development-Mgmt & S		58
TEXAS RESEARCH INTERNATIONAL	Texas	NAVY	RDTE/Other Research & Development-Mgmt & S		192
TEXAS TECH UNIVERSITY	Texas	ARMY	RDTE/Other Research & Development-Mgmt & S		412
TYBRIN CORPORATION	Florida	USAF	RDTE/Other Research & Development-Mgmt & S		50
UNISTRY ASSOCIATES	Penn	USAF	RDTE/Other Research & Development-Mgmt & S		238
UNISYS CORPORATION	California	NAVY	RDTE/Other Research & Development-Mgmt & S		199
UNIVERSAL ENERGY SYSTEMS INC	Ohio	USAF	RDTE/Other Research & Development-Mgmt & S		393
UTAH BIORESEARCH INC	Utah	USAF	RDTE/Other Research & Development-Mgmt & S		50
VERSATRON CORPORATION	California	NAVY	RDTE/Other Research & Development-Mgmt & S		97
VIRGINIA STATE UNIVERSITY	Virginia	ARMY	RDTE/Other Research & Development-Mgmt & S		50
WAGNER DANIEL H ASSOCIATES	Penn	NAVY	RDTE/Other Research & Development-Mgmt & S		121
	Virginia	NAVY	RDTE/Other Research & Development-Mgmt & S		

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## PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

FISCAL YEAR 1991

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION
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AZ16 (CONTINUED)

## CONTRACTOR TOTAL

WAGONER JAMES E	California	USAF	RDTE/Other Research & Development-Mgmt & S	\$	171
WEDEVEN ASSOCIATES INC	Penn	USAF	RDTE/Other Research & Development-Mgmt & S		52
WESTINGHOUSE ELECTRIC CORP	Penn	USAF	RDTE/Other Research & Development-Mgmt & S		190
XINOTECH RESEARCH INC	Minnesota	NAVY	RDTE/Other Research & Development-Mgmt & S		52
XMCO INC	Virginia	ARMY	RDTE/Other Research & Development-Mgmt & S		391
					50
R&D TOTAL					228,434
GRAND TOTAL FOR R&D					\$ 20,898,366